# TABLE OF CONTENTS


Chancellor's Welcome ..... 4

General Information ..... 5

About St. Louis Community College ..... 6

Accreditation and Program Approvals ..... 8

Admission ..... 10

Fees and Refunds ..... 13

Financial Aid ..... 16

Signed Articulation Agreements ..... 18

STLCC Academic Calendar ..... 22

STLCC Foundation ..... 24

STLCC Policies & Guidelines ..... 25

Health and Safety Policies ..... 25

Enrollment and Attendance Policies ..... 27

Program Information Policies ..... 30

Student Records Policies ..... 34

Student Success Resources ..... 37

Workforce and Community Programs ..... 43

College Programs .....

General Transfer Studies, Associate in Arts ..... 44

Focus Area: Communication ..... 47

Focus Area: Criminal Justice ..... 51

Focus Area: Psychology ..... 54

Focus Area: Social Work ..... 57

Accelerated IT Academy - Programming and Coding, Certificate of Specialization ..... 59

Accounting, Associate in Applied Science ..... 62

Accounting, Certificate of Proficiency ..... 67

Addictions Study, Certificate of Specialization ..... 69

Associate of Arts in Teaching ..... 72

Automotive Service, Certificate of Specialization ..... 79

Automotive Technology, Associate in Applied Science ..... 82

Automotive Technology, Certificate of Proficiency ..... 85

Automotive Vehicle Inspection and Light Maintenance, Certificate of Specialization ..... 88

Baking and Pastry Arts, Associate in Applied Science ..... 90

Behavioral Health Support, Associate in Applied Science ..... 94

Biomedical Electronics Technology, Certificate of Proficiency ..... 99

Biotechnology, Associate in Applied Science ..... 101

Biotechnology, Certificate of Proficiency ..... 108

Business Administration, Associate in Arts ..... 111

Focus Area: Accounting ..... 115

Focus Area: Business ..... 118

Cannabis and Hemp Production, Certificate of Specialization ..... 121

Child and Family Development, Associate in Applied Science ..... 123

Cisco Networking Academy: CCNA, Certificate of Specialization ..... 135

Clinical Coding, Certificate of Proficiency ..... 136

Clinical Coding Associate, Certificate of Specialization ..... 139

Clinical Laboratory Technology (Medical Laboratory Technician), Associate in Applied Science ..... 141

CompTIA A+ Certification, Certificate of Specialization ..... 144

CompTIA A+ and Security+ Certifications, Certificate of Specialization .. 146

Computed Tomography, Certificate of Specialization ..... 147

Computer Accounting Technology, Certificate of Specialization ..... 149

Computer Aided Design (CAD), Certificate of Specialization ..... 151

Criminal Justice, Associate in Applied Science ..... 153

Criminal Justice, Certificate of Proficiency ..... 156

Culinary Arts, Associate in Applied Science ..... 158

Cybersecurity, Associate in Applied Science ..... 163

Cybersecurity, Certificate of Proficiency ..... 169

Database Developer, Certificate of Proficiency ..... 173

Deaf Communication Studies: American Sign Language, Certificate of Specialization ..... 177

Deaf Communication Studies: Interpreter Education, Associate in Applied Science ..... 179

Dental Hygiene, Associate in Applied Science ..... 182

Diagnostic Medical Sonography, Certificate of Proficiency ..... 188

Diesel Technology, Associate in Applied Science ..... 196

Diesel Technology, Certificate of Proficiency ..... 201

Diesel Technology, Certificate of Specialization ..... 205

Engineering Technology, Associate in Applied Science ..... 207

Funeral Service Education, Associate in Applied Science ..... 214

General Fine Arts, Associate in Fine Arts ..... 218

General STEM Transfer Studies, Associate in Science ..... 225

Focus Area: Biology ..... 227

Focus Area: Computer Science ..... 230

Focus Area: Engineering ..... 234

Focus Area: Mathematics ..... 238

Graphic Communications, Associate in Applied Science ..... 241

Graphic Communications, Associate in Fine Arts ..... 251

Health Information Management, Associate in Applied Science ..... 256

Health Sciences, Associate in Science ..... 259

Horticulture, Associate in Applied Science ..... 266

Horticulture, Certificate of Proficiency ..... 270

Hospitality Management, Associate in Applied Science ..... 273
Human Services, Associate in Applied Science ..... 279
HVAC Technician, Certificate of Specialization ..... 284
IT Help Desk/End User Support, Certificate of Specialization ..... 285
Interior Design, Associate in Applied Science ..... 288
Legal Studies for the Paralegal, Associate in Applied Science ..... 293
Legal Studies for the Paralegal, Certificate of Proficiency ..... 299
Magnetic Resonance Imaging, Certificate of Proficiency ..... 302
Medical Assisting, Certificate of Specialization ..... 305
Network Security Engineering, Associate in Applied Science ..... 307
Network Security Engineering, Certificate of Proficiency ..... 313
Nursing, Associate in Applied Science ..... 318
Occupational Therapy Assistant, Associate in Applied Science ..... 323
Paramedic Technology, Associate in Applied Science ..... 329
Paramedic Technology, Certificate of Proficiency ..... 335
Photography, Associate in Fine Arts ..... 340
Physical Therapist Assistant, Associate in Applied Science ..... 348
Practical Nursing, Certificate of Proficiency ..... 353
Precision Machining Technology, Certificate of Specialization ..... 356
Radiologic Technology, Associate in Applied Science ..... 358
Remote Aircraft Pilot, Certificate of Specialization ..... 366
Respiratory Care, Associate in Applied Science ..... 368
Respiratory Care, Bachelor of Science ..... 373
Skilled Trades Industrial Occupations Technology, Associate in Applied Science ..... 379
Skilled Trades Industrial Occupations Technology, Certificate of Specialization ..... 386
Software Developer, Associate in Applied Science ..... 387
Surgical Technology, Associate in Applied Science ..... 405
Web Developer, Certificate of Specialization ..... 409
Welding Technology, Certificate of Proficiency ..... 412
Welding Technology, Certificate of Specialization ..... 414
General Education Requirements ..... 416
Course Descriptions ..... 424
Courses A-Z .....
Accounting (ACC) ..... 427
Anthropology (ANT) ..... 428
Arabic (ARA) ..... 429
Art (ART) ..... 429
Art (AT) ..... 434
Automotive Technology (AUT) ..... 436
Baking and Pastry (BAP) ..... 438
Behavioral Health Support (BHS) ..... 439
Biology (BIO) ..... 440
Biomedical Engineering Tech (BE) ..... 443
Biotechnology (BTX) ..... 443
Building Inspection Technology (BIC) ..... 444
Business Administration (BUS) ..... 444
Business Law (BLW) ..... 445
Certified Medical Assisting (CMA) ..... 445
Chemistry (CHM) ..... 445
Child and Family Development (CFD) ..... 446
Chinese (CHI) ..... 448
Civil Engineering Technology (CE) ..... 449
Clinical Laboratory Technology (CLT) ..... 449
College Studies (COL) ..... 450
Communications (COM) ..... 451
Computed Tomography (CT) ..... 451
Computer Information Technology (CIT) ..... 452
Criminal Justice (CRJ) ..... 455
Culinary Arts (CUL) ..... 456
Deaf Communication Studies (DCS) ..... 458
Dental Hygiene (DHY) ..... 460
Diagnostic Medical Sonography (DMS) ..... 463
Diesel Technology (DIE) ..... 467
Economics (ECO) ..... 468
Education (EDU) ..... 468
Electrical/Electronic Egr Tech (EE) ..... 469
Emergency Medical Technology (EMT) ..... 470
Engineering Graphics (EGR) ..... 470
Engineering Science (ESC) ..... 471
English (ENG) ..... 471
English Multilingual Learners (EML) ..... 473
Finance (FIN) ..... 474
French (FRE) ..... 474
Funeral Service Education (FSE) ..... 475
Game and Interactive Design (GID) ..... 476
General Engineering (GE) ..... 476
Geography (GEG) ..... 476
Geology (GEO) ..... 477
Geospatial Technology (GST) ..... 477
German (GER) ..... 478
Global Education (GLE) ..... 478
Health and Wellness (HW) ..... 479

Health Information Management (HIM) ..... 481
Health Sciences (HS) ..... 483
History (HST) ..... 483
Horticulture (HRT) ..... 484
Hospitality and Tourism (HTM) ..... 486
Human Services (HMS) ..... 488
Humanities (HUM) ..... 489
Information Systems (IS) ..... 489
Information Technology (IT) ..... 492
Interdisciplinary Studies (IDS) ..... 494
International Business (IB) ..... 494
Japanese (JPN) ..... 495
Legal Studies (LGL) ..... 495
Library & Information Studies (LIB) ..... 496
Licensed Practical Nursing (LPN) ..... 496
Magnetic Resonance Imaging (MRI) ..... 497
Management (MGT) ..... 499
Marketing (MKT) ..... 499
Mass Communications (MCM) ..... 499
Mathematics (MTH) ..... 500
Mechanical Engineering Tech (ME) ..... 503
Missouri Civics Examination (MCE) ..... 504
Music (MUS) ..... 504
Nursing (NUR) ..... 507
Occupational Therapy Assistant (OTA) ..... 508
Paramedic Technology (PAR) ..... 510
Personal Development (PRD) ..... 511
Philosophy (PHL) ..... 511
Physical Science (PSI) ..... 512
Physical Therapist Assistant (PTA) ..... 512
Physics (PHY) ..... 513
Political Science (PSC) ..... 514
Psychology (PSY) ..... 514
Radiologic Technology (XRT) ..... 515
Reading (RDG) ..... 517
Respiratory Care (RC) ..... 517
Skilled Trades (SKT) ..... 520
Smart Start (STR) ..... 525
Sociology (SOC) ..... 525
Spanish (SPA) ..... 526
Surgical Technology (ST) ..... 526
Theatre (THT) ..... 527
Web (WEB) ..... 528
Welding (WEL) ..... 529
Course Equivalencies ..... 529
Index ..... 540

# CHANCELLOR'S WELCOME

**Welcome to St. Louis Community College.**

Thank you for choosing St. Louis Community College. We're excited to have you here!

At STLCC, our mission is simple: **Empowering students. Expanding minds. Changing lives.** That's what we've been doing since 1962, and it's what we'll do for you.

We know that going to college is a big step. That's why we've built a college that works around your life. Whether you're starting college for the first time, learning new job skills, or just exploring something you're curious about, you belong here.

**Here's what makes STLCC special:**

With more than 80 programs and six schools, you can choose the path that's right for you. We're the largest community college in Missouri, and we've helped over 1.3 million students reach their goals. We offer quality education at a price you can actually afford, and graduate with little or no debt.

**We make learning work for you.** Our four campuses are spread across the St. Louis area, so there's probably one close to where you live or work. We also offer online and hybrid classes if you need even more flexibility. You can take classes during the day, in the evening, or on weekends—whatever fits your schedule.

**You'll get the support you need.** Our classes are smaller, so you're not just a number. Our faculty and staff really care about helping you succeed. Need help with tutoring? Financial aid? Advising? We've got your back.

**College is more than just classes.** Join a club. Play a sport. Go to a concert or art show. Get involved in student government. Meet Archie, our mascot! There are hundreds of ways to connect with other students and have fun while you're learning.

We put students first—that's one of our core values. Everything we do is designed to help you succeed and remove barriers that might get in your way.

Thank you again for making STLCC your college of choice. I'm confident that our dedicated teachers, flexible schedules, affordable tuition, and supportive community will give you the best chance to expand your mind and change your life.

Welcome to the STLCC family!

Sincerely,

Jeff L. Pittman, Ph.D.

Chancellor

# GENERAL INFORMATION

## About this Catalog

The St. Louis Community College Fall 2026 Catalog provides information on entering the college, selecting a program of study, maximizing the collegiate experience, and preparing for a career or advanced study.

Courses listed in the transfer and career programs sections may not be offered every semester. A current list of courses and course descriptions is available on the **Interactive Class Schedule (https://applications.stlcc.edu/ClassSchedule/Term_Courses.asp)**.

The information in this catalog is current as of March 2026. The college reserves the right to change any policies or procedures outlined in this catalog. More information on policy changes is available in the **Board of Trustees Policy Manual (https://go.boarddocs.com/mo/stlcc/Board.nsf/Public)**, which can also be accessed in campus libraries.

The information in this catalog is not a substitute for Board policies.

This catalog is available in alternate forms. **Contact a campus Access office for more information. (https://www.stlcc.edu/student-support/disability-services/)**

## Academic Integrity Statement

St. Louis Community College recognizes that the core value of academic integrity is essential to all activities of an academic community and provides the cornerstone for teaching and learning.

It is characterized by upholding the foundational principles of honesty, equity, mutual responsibility, respect, and personal integrity. Advancing the principles of academic integrity is essential because doing so enhances academic discourse, the quality of academic work, institutional operations, and the assessment of educational goals.

Observing academic integrity involves:

- Maintaining the standards of the college's degrees, certificates, and awards to preserve the academic credibility and reputation of the college;
- Communicating expectations, best practices, and procedures in order to promote the principles of academic integrity and ensure compliance;
- Providing environments, instruction, and access to the resources necessary for maintaining integrity in learning;
- Taking responsibility and personal accountability for the merit and authenticity of one's work;
- Giving proper acknowledgment and attribution to those who directly contribute to a project or whose work is used in the completion of a project;
- Recognizing what compromises academic integrity, whether intentional or unintentional (plagiarism, cheating, uncivil behavior, etc.).

It is the shared duty of the faculty, students, and staff of the college to understand, abide by and endorse academic integrity.

## Equal Opportunity is the Law

It is against the law for this recipient of Federal financial assistance to discriminate on the following bases:

- Against any individual in the United States, on the basis of race, color, religion, sex, national origin (including limited English proficiency), age, disability, or political affiliation or belief, or,
- Against any beneficiary of, applicant to, or participant in programs financially assisted under Title I of the Workforce Innovation and Opportunity Act, on the basis of the individual's citizenship status or participation in any WIOA Title I - financially assisted program or activity.

The recipients must not discriminate in any of the following areas:

- Deciding who will be admitted, or have access, to any WIOA Title I - financially assisted program or activity;
- Providing opportunities in, or treating any person with regard to, such a program activity; or
- Making employment decisions in the administration of, or in connection with, such a program or activity.

Recipients of federal assistance must take reasonable steps to ensure that communications with individuals with disabilities are as effective as communications with others. This means that, upon request and at no cost to the individuals, recipients are required to provide appropriate auxiliary aids and services to qualified individuals with disabilities.

If you think that you have been subjected to discrimination under a WIOA Title I - financially assisted program or activity, you may file a complaint within 180 days from the date of the alleged violation with either:

Danielle Smith, State Equal Opportunity Officer
Missouri Department of Higher Education and Workforce Development - Office of Workforce Development
301 W. High Street, PO Box 1087

Jefferson City, MO 65102

Email: **danielle.smith@dhewd.mo.gov**
Phone: 573-751-2428
Fax: 573-751-4088
Missouri Relay Services at 711

or

Director, Civil Rights Center (CRC)
U.S. Department of Labor
200 Constitution Avenue NW Room N-123
Washington, DC 20210

or electronically as directed on the **CRC Web site (https://www.dol.gov/crc).**

If you file your complaint with the recipient, you must wait either until the recipient issues a written Notice of Final Action, or until 90 days have passed (whichever is sooner), before filing with the Civil Rights Center (see address above). If the recipient does not give you a written Notice of Final Action within 90 days of the day on which you filed your complaint, you may file a complaint with CRC before receiving that Notice. However, you must file your CRC complaint within 30 days of the 90-day deadline (in other words, within 120 days after the day on which you filed your complaint with the recipient).

If the recipient does give you a written Notice of Final Action on your complaint, but you are dissatisfied with the decision or resolution, you may file a complaint with CRC. You must file your CRC complaint within 30 days of the date on which you received the Notice of Final Action.

# Notice of Non-Discrimination

St. Louis Community College is committed to creating inclusive, welcoming, and respectful learning and working environments focused on the needs of our diverse communities. The College does not discriminate on the basis of and prohibits discrimination based on race, color, national origin, ancestry, religion, sex, pregnancy or pregnancy-related condition, sexual orientation, sex stereotypes, gender identity, gender expression, age, disability, protected veteran status, and any other status protected by applicable state or federal law. The College's Nondiscrimination policies apply to any phase of its employment process, any phase of its admission, or financial aid programs, and all of its educational programs or activities.

Inquiries may be referred to the College director for community standards/Title IX coordinator (**srcs@stlcc.edu/** 314-539-5345/ 3321 McKelvey Rd., Bridgeton, MO 63044), the **U.S. Department of Education's Office for Civil Rights (https://ocrcas.ed.gov/contact-ocr)**, or both. Reports or complaints of conduct that may constitute discrimination can be made orally or in **writing via email to the director for community standards/Title IX coordinator (titleix@stlcc.edu)** or by accessing the **College reporting form (https://stlcc.edu/college-policy-procedures/stlcc-cares/report-a-concern.aspx)**. **More information can be found on the STLCC Statement of Nondiscrimination webpage (https://stlcc.edu/college-policy-procedures/statement-of-nondiscrimination.aspx).**

If you are a student with a disability and need accommodations for courses or to participate in a College program, **please contact your campus Access Office (https://stlcc.edu/student-support/disability-services/).**

# About St. Louis Community College

## St. Louis Community College: Your Path to Success

St. Louis Community College (STLCC) is here to help you succeed. We create a supportive learning environment where students discover their strengths and find their path forward.

### Our Story

Back in 1962, voters in St. Louis City and County decided to create this college. Since then, we've been changing lives and helping our community grow stronger. More than 1.3 million people have attended STLCC!

### What We Offer

Nearly 34,000 students join us each year to:

- Prepare to transfer to a four-year college
- Earn degrees and certificates to enter the workforce
- Build job skills
- Take classes for personal growth
- Get ready for college-level work

You can earn various degrees and certificates, including Associate degrees and even a Bachelor of Science degree. We also help local businesses train their employees through our Employer and Workforce Solutions division.

## Where You Can Learn

Learning with us is easy and convenient. We have four campuses:

- **Florissant Valley** (North County)
- **Forest Park** (Central City)
- **Meramec** (Southwest)
- **Wildwood** (Far West)

We also have two education centers and offer classes at locations throughout the area. Plus, you can take classes online from home!

## How We're Supported

STLCC is led by a board of seven trustees (six elected, one appointed by the state). We're funded by local taxes, state money, and student fees. We're officially accredited by the Higher Learning Commission, which means your degree is recognized and respected.

## Our Mission

We focus on one thing: helping YOU find the right academic and career path by Empowering Students, Expanding Minds and Changing Lives. Through partnerships with graduates and community organizations, we're working to make St. Louis the best place to live and work in the 21st century.

# Economic Value

St. Louis Community College is your best financial investment now – and a great investment for your future. Student fees at STLCC are among the lowest in the area.

A large portion of instructional costs is financed by tax revenue; therefore, you pay less for a high-quality academic experience. And graduates of STLCC are the region's best economic investment.

- Research shows that for every $1 invested in their STLCC education, students receive a return on that investment of more than $4.70 in higher future income over their working careers.
- From a taxpayer perspective, every $1 of state or local tax money invested in STLCC returns $2.80.
- STLCC's annual impact on St. Louis is $2.5 billion or approximately 2.2 percent of the total St. Louis area economy. The activities of STLCC and its students support 32,371 jobs – that's one out of every 34 jobs in the St. Louis area.
- For every dollar invested in STLCC in FY 2017-18, people in Missouri will receive $10.80 in return, for as long as STLCC's FY 2017-18 students remain active in the workforce.
- It is estimated that the St. Louis area economy annually receives a net of over $145 million in added labor and non-labor income due to STLCC operations.
- Compared to someone with only a high school diploma, associate degree graduates earn approximately $10,100 more per year in the St. Louis area.

Source:
Economic Modeling Specialists, Inc., 2019

# Mission

Empowering students. Expanding minds. Changing lives.

# Vision

St. Louis Community College will be a national leader and model institution for transformative education that strengthens the communities we serve through the success of our students.

# Values

## Students First

Everything we do supports student success and removes barriers.

## Respect for All

We promote respectful treatment and discourse in all interactions with students, each other, and the community.

## Integrity

We act with honesty, trustworthiness, and ethical behavior.

## Collaboration

Working collectively, we achieve more than working individually or within separate groups.

### Data Informed

We make decisions in the best interest of students and the institution based on reliable data.

# STLCC Accreditation and Program Approvals

Accreditation and approvals ensure that college programs meet recognized standards of quality and that credits will be more transferable. The following section outlines institutional and program-specific accreditations for St. Louis Community College.

# Institutional Accreditation

## Higher Learning Commission (HLC)

St. Louis Community College is accredited by the **Higher Learning Commission (https://hlcommission.org)** (HLC), 230 South LaSalle St., Suite 7-500, Chicago, IL 60604; 800-621-7440.

# Collegewide Accreditations

## Missouri Department of Higher Education and Workforce Development (MDHEWD)

All college degree programs are approved by the Missouri Department of Higher Education and Workforce Development (MDHEWD).

## National Alliance of Concurrent Enrollment Partnerships (NACEP)

The high school dual credit program is accredited by the National Alliance of Concurrent Enrollment Partnerships (NACEP).

## Nursing

The Associate Degree Nursing Program at St. Louis Community College (STLCC), located in St. Louis, MO, is approved by the Missouri Board of Nursing and is accredited by the:

Accreditation Commission for Education in Nursing (ACEN)
3343 Peachtree Road NE, Suite 850
Atlanta, GA 30326
404-975-5000

The most recent accreditation decision made by the ACEN Board of Commissioners for the Associate Degree Nursing Program at STLCC based on the February 2020 evaluation visit is continuing accreditation with the next scheduled evaluation visit for spring 2028.

# Florissant Valley Program Accreditations

## Child Development Center

- Missouri Accreditation for Children and Youth Programs; State Accreditation
- Missouri Department of Health and Senior Services; Licensure
- National Association for the Education of Young Children (NAEYC); National Accreditation

## Dental Hygiene

- Commission of Dental Accreditation American Dental Association (CODA)
- Missouri Dental Board

## Emergency Medical Services

- Missouri Bureau of Emergency Medical Services
- The Emergency Medical Service Paramedic Program is accredited by the Commission on Accreditation of Allied Health Education Programs upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP)

## General Fine Arts

- National Association of Schools of Art and Design (NASAD)

## Graphic Communications

- National Association of Schools of Arts and Design (NASAD)

## Photography

- National Association of Schools of Art and Design (NASAD)

### Radiologic Technology

- Joint Review Committee on Education in Radiologic Technology (JRCERT)

### Respiratory Care

- Commission on Accreditation for Respiratory Care (CoARC)

## Forest Park Program Accreditations

### Automotive Technology

- ASE Education Foundation

### Baking and Pastry Arts

- American Culinary Federation (ACF) (Exemplary)

### Clinical Coding

- American Health Information Management Association (AHIMA)
- Professional Certificate Approval Program (PCAP) through American Health Information Management Association

### Clinical Laboratory Technology

- National Accrediting Agency for Clinical Laboratory Sciences (NAACLS)

### Culinary Arts

- American Culinary Federation (ACF) (Exemplary)

### Dental Hygiene

- Commission of Dental Accreditation American Dental Association (CODA)
- Missouri Dental Board

### Diagnostic Medical Sonography

- Accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) upon the recommendation of the Joint Review Committee on Education in Diagnostic Medical Sonography (JRC-DMS)

### Diesel Technology

- ASE Education Foundation

### Emergency Medical Services

- Missouri Bureau of Emergency Medical Services
- The Emergency Medical Service Paramedic Program is accredited by the Commission on Accreditation of Allied Health Education Programs upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP)

### Funeral Service Education

- American Board of Funeral Service Education (ABFSE)

### Health Information Management

- Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM)

### Hospitality Management

- American Culinary Federation (ACF)

### Occupational Therapy Assistant

- Accreditation Council for Occupational Therapy Education (ACOTE)

### Physical Therapist Assistant

- Commission on Accreditation of Physical Therapy Education (CAPTE)

### Radiologic Technology

- Joint Review Committee on Education in Radiologic Technology (JRCERT)

### Respiratory Care

- Commission on Accreditation for Respiratory Care (CoARC)

### Surgical Technology

- Commission on Accreditation of Allied Health Education Programs (CAAHEP)

## Meramec Program Accreditations

### General Fine Arts

- National Association of Schools of Art and Design (NASAD)

### Graphic Communications

- National Association of Schools of Arts and Design (NASAD)

### Interior Design

- National Association of Schools of Art and Design (NASAD)

### Photography

- National Association of Schools of Art and Design (NASAD)

## Wildwood Program Accreditations

### Clinical Laboratory Technology

- National Accrediting Agency for Clinical Laboratory Sciences (NAACLS)

### Diagnostic Medical Sonography

- Accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) upon the recommendation of the Joint Review Committee on Education in Diagnostic Medical Sonography (JRC-DMS)

### Emergency Medical Services

- Missouri Bureau of Emergency Medical Services
- The Emergency Medical Service Paramedic Program is accredited by the Commission on Accreditation of Allied Health Education Programs upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP)

### Physical Therapist Assistant

- Commission on Accreditation of Physical Therapy Education (CAPTE)

# Admission

## Admission Classifications

Applicants for St. Louis Community College may apply as either degree-seeking or non-degree-seeking.

### Degree-Seeking Applicants

Degree-seeking students are full- or part-time students who are pursuing a degree or certificate from STLCC. As a degree-seeking student, you may:

- Apply for financial aid, veteran's benefits, or the A+ Program.
- Apply for a selective admission program.
- Apply as an international student with F-1 student visa status.
- Participate in intercollegiate athletics.

To apply as a degree-seeking student, you must submit an application for admission. Official transcripts from high school and/or colleges attended must be sent directly from those institutions to the Office of the Registrar by mail or electronically through an approved secure vendor. If applicable, submit official GED or HiSET test scores.

Students with 15 or more transferable college credit hours from another college or university are not required to submit a high school transcript unless requested by the Enrollment Services Office. You must also complete the college's placement test or provide documentation to waive the assessment requirement.

### Non-Degree-Seeking Applicants

Non-degree-seeking applicants are typically interested in taking selected courses rather than pursuing a specific program of study.  Applicants must submit an application for admission and either complete the college's placement test or provide documentation to waive the assessment requirement.

## Non-Traditional Applicants

Applicants who have completed an educational course of study that is not accredited by a state board of education or by an accredited agency listed in the International Registry of Accredited Schools are eligible for admission as non-degree-seeking students, provided they are at least 17 years of age.

To apply as a degree-seeking student, applicants must provide official high school transcripts from an accredited high school or passing GED or HiSET test scores.

Under extenuating circumstances, applicants who do not meet the above criteria may be considered for admission by the administrator responsible for admissions.

Students who do not meet the required admission guidelines may apply as non-high school graduates. See the related section below.

## Non-High School Graduates

Students who have not graduated from high school are eligible for admission as non-degree-seeking students, provided they are at least 17 years of age. Non-high school graduates who submit a degree-seeking application are not eligible to pursue a program of study.

To apply as a degree-seeking student, applicants must provide official high school transcripts from an accredited high school or passing GED or HiSET test scores.

Under extenuating circumstances, applicants who do not meet the above criteria may be considered for admission by the administrator responsible for admissions.

## Dual Enrollment

High school sophomores, juniors, and seniors may attend classes through the Dual Enrollment program, which provides students with an opportunity to take courses taught by STLCC faculty. Eligible students may earn college credit hours before the time they would normally begin college. Make It Count, Early College, Career and Tech Ed Academy, and Special Cohort Programs are all a part of the Dual Enrollment Program. Students must follow all college policies and procedures, and fulfill the following requirements:

- Apply to STLCC by completing the dual enrollment application.
- Submit a completed Dual Enrollment Authorization Form each semester, including required signatures from the parent/guardian and the authorized school official. This form will also request a copy of their unofficial high school transcript from their authorized school official.
- Have a cumulative high school GPA of 2.0 or higher.
- Meet the college's requirements for entry into the course. Students must meet assessment and prerequisite requirements.
- Attend STLCC's orientation and any orientation or registration events required by their district or program.
- The student is responsible for all fees by the payment deadline if not covered by an agreement between the school district and the college.
- Apply to the Access office for disability-related accommodations and services if applicable. Documentation of disability that meets the college's requirements will be required. It should be noted that the requirements for and the types of accommodation at the postsecondary level are based on the Americans with Disabilities Act and Section 504, and are often significantly different from the Individuals with Disabilities Education Act. **For more information, contact the Access Office (https://stlcc.edu/student-support/disability-services/)**.
- NOTE: Students with less than high school sophomore standing may also apply to take courses via the college's dual enrollment program.
  - In addition to the requirements above, students are required to submit standardized test scores (Accuplacer, ACT, SAT) that demonstrate the student meets the college's standards of reading proficiency. Students in this category may not meet the college's placement requirements using multiple measures.
  - Students in this category must also submit a Less than Sophomore Standing Approval form, which must be signed by their parent/guardian and authorized school official.

## Dual Credit

High school sophomores, juniors, and seniors may receive college credit for specified classes at high schools participating in the college's dual credit program. Dual credit students must follow all college policies and procedures and fulfill the following requirements:

- Apply to STLCC by completing the dual credit application.
- Be enrolled in the 10th, 11th, or 12th grade with an overall minimum grade point average of 2.0 (on a 4.0 scale).
- Submit the Dual Credit Registration Form, which will also gather parent/guardian and authorized school official permission. Authorized school officials will verify student eligibility and recommend the student for participation through this process.
- Meet the college's requirements for entry into the course. Students must meet assessment and prerequisite requirements.
- The student is responsible for all fees by the payment deadline if not covered by an agreement between the school district and the college.
- Apply to the Access Office for disability-related accommodations and services if applicable. Documentation of disability that meets the college's requirements will be required. It should be noted that the requirements for and the types of accommodation at the postsecondary level are based on the Americans with Disabilities Act and Section 504, and are often significantly different from the Individuals with Disabilities Education Act. **For more information, contact the Access Office (https://stlcc.edu/student-support/disability-services/)**.

## International Applicants

International students, unless admitted under a contract or agreement establishing alternative requirements, must fulfill the following requirements for admission:

- Complete the requirements for admission as a degree-seeking student.
- Obtain the "International Student" information packet from the campus Enrollment Services office.
- Complete the equivalent of a 12-year elementary and secondary school program. An equivalent to the U.S. B average or better is required for courses taken at the secondary school level.
- Submit official transcripts from secondary (high school) and higher education institutions. Transcripts should be sent directly from that institution to the office of the Registrar. Transcripts must be certified and translated into English, contain descriptive titles of courses studied, contain final grades in each course, and provide an explanation of the grading system. **Students may contact World Education Services for assistance in translating a transcript. (https://www.wes.org/)**
- Have all admission requirements and required documents on file 60 days before the start of classes if prospective students are still residing outside of the United States. Prospective students currently attending a college or high school in the United States must submit all materials 30 days before the start of classes.
- Submit proof of English proficiency through TOEFL or IELTS.
  - Test of English as a Foreign Language (TOEFL): A score of 79 or higher on the internet-based test (IBT) is required for admission. The applicant must have taken the test within the past two years. The TOEFL assigned code number for St. Louis Community College is 6225.
  - International English Language Testing System (IELTS): A score of 6.5 or higher on the overall band score is required for admission.
- Submit a grade average of 3.0 on all coursework completed at English language centers or for intensive English courses completed at other colleges or universities if prospective students are already in the United States. Students in degree-seeking academic programs at all other accredited institutions must have earned a cumulative GPA of 2.0.
- Submit a financial statement that certifies that they have adequate funds to carry them under normal conditions through their course of study without the need for federal or state financial assistance. This form must be notarized and completed within the last four months.
- Provide proof of a health insurance plan for the term in which you are applying. The plan must include repatriation of mortal remains and medical evaluation. Students must submit verification documents to the Enrollment Services office before they can register for classes.

International students on F-1 Visas must comply with the following regulations:

- Complete a minimum of 12 credit hours per semester.
- Maintain a cumulative grade point average of 2.0 or above.
- Complete a certification program in not more than four semesters or an associate degree program in not more than six semesters, excluding summer sessions.
- If such a student completes fewer than 12 credit hours or earns a cumulative grade point average of less than 2.0, he or she will be placed on probation for the next semester of attendance.
- If the student completes fewer than 12 credit hours or earns a grade point average less than 2.0 while on probation, he or she will not be permitted to re-enroll.
- Foreign-born students (both permanent residents and refugees) should have a command of written and spoken English to successfully complete college work.

# Admission Policy

St. Louis Community College (STLCC) has an open admission policy in keeping with its original purpose to provide quality, low-cost education to area residents. Although admission to the college is not based on minimum academic qualifications, certain programs have required standards for admission and retention.

The college reserves the right to guide enrollment on the basis of placement tests, pre-enrollment interviews, physical examinations (if required for a specific program), previous achievement, and other criteria.

For programs requiring reading competency, English writing, and/or mathematics courses, a battery of assessment tests is required for placement. Students not meeting standards for admission into certain courses or programs may enroll in courses designed to help them qualify.

Before registering for courses, students must be admitted to the college. Admission applications are accepted starting in October for the next spring and fall term, and in November for the next summer term. Applications may be completed and submitted online or in person at any campus kiosk. **More information can be found on the Apply to STLCC webpage (https://www.stlcc.edu/admissions/apply-to-stlcc/)**.

# Change of Status

Students who wish to change from non-degree-seeking to degree-seeking should meet with Academic, Career, and Transfer Advising after submitting their official transcripts to submit a Program/Major Change Form. Official transcripts from high school and/or college attended must be mailed to the Registrar's office. If applicable, submit GED or HiSET test scores. Students with 15 or more credit hours of transferable college credit from another college or university need not send a high school transcript unless requested by the Enrollment Services office. **Learn more about admissions classifications on the STLCC website (https://www.stlcc.edu/admissions/apply-to-stlcc/)**.

# New Student Orientation

Before the start of classes, all first-time-in-college students will participate in Archer Orientation. Students will register for classes and be oriented to classroom locations, college resources, and expectations for college students. They will learn how to access and use the student email accounts, Canvas (online learning platform), and Archer Connect, as well as college e-mail and other communication tools.

# Re-Admission

Former students who have attended St. Louis Community College within the last three semesters do not need to reapply. If seeking a degree or certificate, transcripts of all college coursework not currently on file at STLCC must be sent directly to the Registrar's office.

Students may not pursue their former program if it has been deactivated or is no longer accepting students.

Records for students who have not attended within five years will be destroyed. Transcripted grades earned at STLCC are retained. Students will be required to resubmit high school records, transcripts from other colleges and universities, and any other documents that may have been destroyed.

# Fees and Refunds

## Active Duty Military Service

A refund for classes in progress will be issued to students forced to withdraw as a result of being called to active duty military service.

It is the responsibility of the student to complete withdrawal procedures and submit a copy of military orders.

For more information on withdrawals and the latest on policy changes concerning Veterans, **visit the STLCC's Veteran Affairs webpage (https://www.stlcc.edu/admissions/apply-to-stlcc/veterans.aspx)**.

# Federal Financial Aid (Title IV) Recipients

### Refunds

Refunds to all Title IV recipients who withdraw during an enrollment period for which they have been charged will be identified and processed to comply with federal regulations.

Title IV of the Federal Higher Education Act (HEA) requires that students who receive federal grants (Federal Pell Grant, Federal Supplemental Educational Opportunity Grant) and federal loans repay some of their federal financial aid if they do not attend class through 60 percent of the term. Most students who do not attend at least one class through the 60 percent point of the term will owe some of their Title IV aid back to the U.S. Department of Education.

**Please refer to the Financial Aid Return of Federal Funds webpage for more information about the return of unearned Title IV funds as required by HEA Title IV law and regulations (https://www.stlcc.edu/admissions/financial-aid/financial-aid-return-of-federal-funds.aspx)**.

### Unearned Funds

When the Federal Higher Education Act (HEA) of 1965 was amended in 1998, a new concept was established with regard to HEA Title IV student financial aid programs. The new concept is that students earn their Title IV federal financial aid; if they do not stay enrolled long enough to earn all of their aid, then some of the aid has to be returned to the HEA Title IV programs as unearned Title IV aid. Colleges are required to implement the return of unearned Title IV funds policy.

HEA Title IV financial aid programs include Federal Pell Grant, Federal Supplemental Education Opportunity Grant (FSEOG), Federal Work-Study (FW-S), and Federal Stafford Loans. Federal Work-Study earnings are NOT affected by HEA Title IV law and regulations concerning the return of unearned federal financial aid. Only grants and loans are impacted by the new policy.

Students who want to withdraw from a course(s) should withdraw from the course(s) by using the appropriate form that is submitted to the Enrollment Services office. The return of unearned Title IV funds policy will impact only those students who withdraw from all of their courses before 60 percent of the semester is completed. The policy will affect those students who do not withdraw from their course(s) but simply cease to attend classes. Pursuant to federal guidelines, the college will determine the last date of attendance for those students.

Unearned HEA Title IV funds are returned to the Title IV programs based on a federally mandated formula. Under this formula, colleges are obligated to return unearned funds used for institutional charges, and students are obligated to return unearned funds beyond the institutional charges.

#### Unearned Funds Formula

The following is an example of the HEA Title IV return of unearned funds formula supplied by USDE:

A student withdrew from all courses with 40 percent of the days in the semester completed. The student paid $1,000 in institutional charges (maintenance fees). This student received $3,000 in HEA Title IV aid - $1,000 in a loan and $2,000 in grants. The student earned $1,200 of Title IV aid (40 percent times $3,000). The unearned Title IV aid is $1,800 ($3,000 minus $1,200).

Because only 40 percent of the HEA Title IV aid is earned, the college has to return $600 of the $1,000 paid in institutional charges to Title IV programs ($1,000 minus $400). Since loans are prioritized for the return of unearned funds, the $600 is paid to the student's federal loan.

The student now owes $1,200 in unearned Title IV funds, the difference between the $1,800 total of unearned Title IV funds and the $600 that the school has paid back from institutional charges. Because loans are prioritized for the return of funds, $400 is paid to the federal loan by the school for unearned institutional charges.

The remaining $800 in unearned Title IV aid (the $1,800 minus the $600 in unearned institutional charges paid to the loan and the $400 in unearned aid to the student paid to the loan) is owed to the federal grants. Because the student's liability for the return of unearned Title IV aid to grants is reduced by 50 percent, the student owes $400 to the federal grant program.

### Unearned Funds from Federal Grant

If a student owes unearned Title IV funds from a federal grant, the college must notify the student within 30 days of determining the student's withdrawal. The student retains eligibility for Title IV funds from an initial 45-day period, during which one of the following should happen:

- Student repays unearned Title IV grant money in full, or
- The student makes satisfactory arrangements with the U.S. Department of Education (USDE) to repay the unearned Title IV grant money. If the student does not take one of these two steps, he or she loses eligibility for HEA Title IV funds.

The institutional charges (maintenance fees) incurred by the student are considered to be paid by HEA Title IV funds for the formula, even if the institutional charges were directly paid by a source other than Title IV funds. USDE gives colleges the option of billing students for unearned HEA Title IV funds that the school has to repay as part of the institutional charges.

### Unearned Funds from Federal Loan

If a student owes unearned Title IV funds from a federal loan, the money is returned (repaid) in accordance with the terms and conditions of the promissory note.

### When College Returns Unearned Funds

When a college has to return unearned Title IV funds from institutional charges, the money is returned to programs in the following order: Unsubsidized Federal Stafford Loans, Federal PLUS Loans, Federal Pell Grants, Federal SEOG, and other Title IV assistance. The Access Missouri Assistance Program (Missouri state grant) potentially falls in the category of other Title IV assistance, since state grant programs receive some of their funds through HEA Title IV.

### When a Student Returns Unearned Funds

When a student has to return unearned Title IV funds that he/she received beyond the institutional charges, the money is returned to the programs in the following order: Unsubsidized Federal Stafford Loans, Federal PLUS Loans, Federal Pell Grants (multiplied by 50 percent), Federal SEOG (multiplied by 50 percent), other Title IV assistance (multiplied by 50 percent for grants). Note that students' responsibility for the repayment of unearned Title IV money is reduced by one-half.

# Fees and College Revenues

Net tuition and fees charged to students attending St. Louis Community College are a primary source of College operating funds and represent 16 percent of the total College revenue budget. Other revenue sources include appropriations from the state through the Missouri legislature and approved by the governor (22 percent); and revenue from local property owners who pay taxes within the College's taxing districts (54 percent). The remaining 8 percent of College revenue sources include public and private grants and miscellaneous receipts, including auxiliary services.

## Additional Fees

Course Fees: Students enrolling in courses that require special equipment, field trips, insurance, etc., will be charged additional fees. These are outlined in the course information.

## Electronic Billing Notification

Students normally pay fees in full when registering. The college sends monthly electronic billing notifications to students with a balance due throughout each term to their **STLCC email account (https://stlcc.edu/departments/information-technology/student-email/)**.

The college accepts cash and checks for payments made at the Cashier's office. Checks may be processed as an automated clearing house (ACH) network debit. In addition, the college accepts online payments when using MasterCard, Visa, American Express, and Discover, or ACH payments using checking or savings account information. Check with the Cashier's office concerning fee payment.

- The service fee for domestic card payments will be 2.85%.
- The service fee for international card payments will be 4.25%.
- The minimum service fee for card transactions over $20 and less than $106 will be $3.

## Fees for International Students

Maintenance fees for international students residing in the United States on non-immigrant visas will be assessed according to their visa category and their residency. Those on permanent resident visas will be charged district fee rates based on appropriate documentation. Contact the **Enrollment Services office (https://stlcc.edu/admissions/contact-admissions-enrollment-services.aspx)**.

## Fees for Seniors

Residents of the college service area who are 60 years and older may enroll for half the usual fees. Missouri residents ages 65 years and older may enroll on an audit (no credit), space available basis, in any credit course for a $15 non-refundable registration fee.

For a current schedule of maintenance fees, **visit the Tuition and Fees webpage (https://www.stlcc.edu/admissions/tuition-and-fees/)** or contact a campus **Enrollment Services office (https://stlcc.edu/admissions/contact-admissions-enrollment-services.aspx)** or the **cashier's office (https://stlcc.edu/tuition/)**.

## In Case of Outstanding Debt

Students must have no outstanding debt with St. Louis Community College in order to register for credit or continuing education classes or programs or engage in any new services. Debt for maintenance fees incurred through returned checks, failed payment plans, or failed financial aid may result in a financial hold on a student's account.

If a student has not paid in full or completed the term payment plan, a financial hold will be placed against the student's record until this debt has been cleared.

# Payment Plan

The college offers an automatic payment plan[1] for all term maintenance fees (tuition), which is available for a $30 fee per semester. Card payments incur a 2.85% convenience fee. This plan is not a loan program, but a service that automatically deducts maintenance fees from a bank account or credit card. There is no interest or finance charge assessed, and there is no credit check. Flexible payment options are available–the sooner students sign up, the more months they have to pay. Enrolling online is simple, secure, and easy.

[1] Details of the payment plan are subject to change. **For the latest information about payment plans, visit the STLCC's Payment Plans webpage (https://stlcc.edu/tuition/payment-plans/)**.

# Refunds

Students withdrawing from a course before or during the early part of the semester will be eligible for a refund of fees based on the following schedule.

After the 50 percent refund period, no refunds will be given.

| Length of Course | 80% Refund Before the End of the | 50% Refund Before the End of the |
|---|---|---|
| 16-week session[1] | 2nd week of session | 3rd week of session |
| 15-week session | 1st week of session | 3rd week of session |
| 14-week session | 1st week of session | 3rd week of session |
| 13-week session | 1st week of session | 3rd week of session |
| 12-week session | 1st week of session | 3rd week of session |
| 11-week session | 1st week of session | 2nd week of session |
| 10-week session | 1st week of session | 2nd week of session |
| 9-week session | 1st week of session | 2nd week of session |
| 8-week session | 4th day of session | 2nd week of session |
| 7-week session | 3rd day of session | 1st week of session |
| 6-week session | 3rd day of session | 1st week of session |
| 5-week session | 2nd day of session | 1st week of session |
| 4-week session | 2nd day of session | 1st week of session |
| 3-week session | 1st day of session | 3rd day of session |
| 2-week session | 1st day of session | 2nd day of session |
| 1-week session | 1st day of session | None |

[1] For 16-week course, 100 percent of the course fee will be refunded during the first week of class designated as the official drop/add period.

# Residency Status

Because much of the support for St. Louis Community College comes from state funds and local taxes, students who live within the service area of the college pay a small part of the cost of their education. The service area includes St. Louis City, St. Louis County, and portions of Franklin and Jefferson counties which are part of the Meramec Valley R-3 School District and the Rockwood R-6 School District. Students may be required to submit an affidavit showing residency.

A resident student is defined as follows:

- An unemancipated minor student who has not attained the age of 21 and is under the care, custody, or support of the individual or individuals having legal custody of the student and who live in the district.
- An emancipated minor student who has not attained the age of 21 and who is not under the care, custody, and support of an individual or individuals having legal custody, but lives in the district.
- An adult student who has attained the age of 21 and who has established residency within the St. Louis Community College District.
- A non-immigrant unemancipated minor alien student, holding a visa type B, F, H (except H-1B), J, M, 0-2, P or Q and who is a legal dependent of an individual(s) who holds permanent alien status or who holds a visa in a category other than those specified above and who lives within the district.
- A non-immigrant alien holding a visa in a category other than those specified above will be assessed in-district fees if he/she has established residency within the district.

### Burden of Proof

The burden of proof to establish eligibility for resident status rests completely with the student. The factual criteria used to determine resident status are as follows:

- Missouri domicile lease/deed
- Missouri driver's license with current address
- Missouri personal property tax receipt

Refer all questions concerning residency to the **Enrollment Services office (https://stlcc.edu/admissions/contact-admissions-enrollment-services.aspx)**.

# Withdrawing from a Class

If a student withdraws from all classes, he/she may receive a pro-rated refund when acceptable evidence of the necessity to withdraw (verified by a physician/employer) is presented. To formally withdraw from a class, a student must complete the process in Archer Connect or submit an Add/Drop/Withdraw form to **Enrollment Services (https://stlcc.edu/admissions/contact-admissions-enrollment-services.aspx)**.

Visit the **Registration and Medical Appeals webpage (https://stlcc.edu/college-policy-procedures/registration-medical-appeals/)** for more information about the College's policies on registration and medical appeals.

# Financial Aid

St. Louis Community College provides a comprehensive financial aid program funded by federal, state, and private agencies. Aid awards fall into four categories:

- **Grants (https://stlcc.edu/admissions/financial-aid/fed-grants-loans.aspx)**
- **Scholarships (https://stlcc.edu/scholarships/)**
- **Loans (https://stlcc.edu/admissions/financial-aid/fed-grants-loans.aspx)**
- **Federal Work Study (https://stlcc.edu/admissions/financial-aid/fed-grants-loans.aspx)**

Although superior ability and talent are recognized through the college's programs, as well as those from other scholarships, most aid is awarded based on financial need.

It is not within the scope of this catalog to explain all of the financial aid programs available. **Additional information about programs that are available and to access the application can be found on the Enrollment Services webpage (https://www.stlcc.edu/admissions/financial-aid/)**.

# Apply Early for Aid

Students seeking financial assistance are encouraged to complete the Free Application for Federal Student Aid (FAFSA) as soon as possible after October 1 each year.

Visit the **Federal Student Aid website (https://studentaid.gov/)** to complete your FAFSA and create your FSA ID number if you do not already have one. Be sure to use the St. Louis Community College school code 002469 when completing your application.

To receive financial aid, students must be admitted to STLCC with degree-seeking status, which includes:

- Submitting official high school, GED or HiSET, and/or previously attended college transcripts
- Completing any required placement testing
- Submit official college transcripts to the Registrar's Office.

After submitting your FAFSA, you can check your financial aid status by logging into **Archer Connect (https://www.stlcc.edu/departments/information-technology/banner-selfservice/)**.

**Information about financial aid programs, scholarships, federal grants, loans, work-study opportunities, and Missouri state programs is available on the Enrollment Services webpage (https://www.stlcc.edu/admissions/financial-aid/).**

# Maintain Satisfactory Academic Progress

Students are expected to maintain satisfactory grades to remain eligible for aid. A 2.0 cumulative grade point average is required, and an overall passing rate of 66.67% is required. **Visit the Satisfactory Academic Progress section in the catalog (p. 30)** for more information. Grades of F, W, I, PR, and U are not acceptable for meeting these requirements. Students are allowed a maximum time frame of 150% of the required hours for their degree to receive federal financial assistance.

At the end of each session, progress is assessed. Students who do not meet the requirements will be placed on financial warning during the next session of enrollment. During the financial warning session, financial aid eligibility may be continued. Failure to meet the criteria during the financial warning semester will result in suspension and termination from Title IV aid. Students who fail, withdraw, or receive an "Incomplete" for all classes in which they enroll will not be eligible for financial aid the next semester of enrollment.

Students may appeal the termination of financial aid by completing an appeal application and submitting it to the campus financial aid office. Students must document any extenuating circumstances that prevented them from maintaining the required standards. All committee appeal decisions are final.

# Veterans and Other Aid

Detailed information about services for veterans is available from the School Certifying Official (SCO) in the Financial Aid office. **Learn more about veteran services by visiting the STLCC Veteran Affairs webpage (https://stlcc.edu/admissions/apply-to-stlcc/veterans.aspx).**

Students may be eligible for financial aid from agencies such as the Department of Mental Health, the Department of Vocational Rehabilitation, and Rehabilitation Services for the Blind. Students must make their own arrangements for such aid.

# A+ Program

Under grants made available through the Missouri A+ Schools Program, qualified graduates of participating high schools are eligible for scholarship grants to St. Louis Community College. Students must fulfill the A+ Program requirements at the high school before applying for grants. Students should contact high school counselors for eligibility requirements. **Learn more about the A+ Program on the Financial Aid webpage (https://www.stlcc.edu/admissions/financial-aid/a-plus.aspx)**.

# Signed Articulation Agreements

Articulation agreements are formal partnerships between St. Louis Community College and colleges or universities that outline how coursework applies to specific degree programs, helping ensure a smooth transfer to a bachelor's degree. STLCC continually collaborates with institutions to expand these opportunities.

Below is a list of current partner institutions with active articulation agreements.  Some programs include links to academic plans; students should consult an academic advisor for plan information and transfer guidance.

## Central Methodist University

- Child Development, BA/BS
- Nursing, BSN

## Columbia College

- Bachelor of Science

## Goldfarb School of Nursing at Barnes-Jewish College

- Nursing, BSN

## Greenville University

- Engineering, BSE

## Harris-Stowe State University

- Early Childhood Education, BS
- Elementary Teacher Education, BS

## Kansas City Art Institute

- Animation, BFA
- Ceramics, BFA
- Graphic Design, BFA
- Painting, BFA
- Photography, BFA
- Printmaking, BFA
- Sculpture, BFA

## Lindenwood University

- Accounting, BA
- Biology, BS
- Honors Agreement

## Logan University

- Human Biology, BS

## Maryville University

- Accounting, BS
- Accounting Information Systems, BS
- Business Administration, BS
- Healthcare Practice Management, BA
- Organizational Leadership, BA
- Practice Management, BA
- Rehabilitation Services, BS

## McKendree University

- Nursing, BSN

## Missouri Baptist University

- Early Childhood and Elementary Education, BS

## Missouri Southern State University

- International Student Agreement

## Missouri State University

- **Dual Admission Program (https://www.missouristate.edu/Transfer/st-louis-community-college.htm)***
- Hospitality Leadership, BAS

## Pacific Northwest College of Art

- General Fine Arts, BFA
- Intermedia, BFA
- Painting, BFA
- Printmaking, BFA
- Sculpture, BFA

## Saint Louis University

- **2+SLU Agreement (https://catalog.slu.edu/academic-policies/office-admission/undergraduate/2plusslu/stlcc/)**
- University Honors Program

## Savannah College of Art and Design

- Painting, BFA
- Photography, BFA
- Printmaking, BFA
- Sculpture, BFA

## School of the Art Institute of Chicago

- Bachelor of Fine Arts

## Southeast Missouri State University

- Industrial Technology, BS

## Southern Illinois University - Carbondale

- Saluki Step Ahead Agreement

## Southern Illinois University-Edwardsville

- Actuarial Sciences, BS
- Applied Mathematics, BS
- Mathematics Education Grades 9-12 Illinois Licensure, BS
- Pure Mathematics, BS
- **Nursing, BSN (https://catalog.stlcc.edu/programs/signed-articulation-agreements/siue-nursing/)**
- Statistics, BS

## University of Missouri-Columbia

- Biological Sciences, BA
- Business Administration, BS
- **Clinical and Diagnostic Sciences with Emphasis in Nuclear Medicine, BHS (https://catalog.stlcc.edu/programs/signed-articulation-agreements/mizzou-clinical-diagnostic-sciences/)**
- Elementary Education, BS
- Human Environmental Sciences in Architectural Studies with an Emphasis in Interior Design, BS
- Nursing, BSN, MS(N)

# University of Missouri-St. Louis

- Biochemistry, BS
- Biotechnology, BS
- Dual Admission Program*
  - AA, AS, AFA, AAT, AAS
    - Human Services
    - Criminal Justice
    - Nursing
- Early Care and Education
- Information Systems and Technology, BS
- Nursing, BSN
- Social Work, BS

# Washington University in St. Louis - University College in Arts & Sciences

- Bachelor of Science

# Webster University

- **Animation, BA (https://catalog.stlcc.edu/programs/signed-articulation-agreements/webster-animation/)**
- **Art with an Emphasis in Studio Art, BFA (https://catalog.stlcc.edu/programs/signed-articulation-agreements/webster-studio-art/)**
- **Art with a Studio Emphasis in Photography, BFA (https://catalog.stlcc.edu/programs/signed-articulation-agreements/webster-photography/)**
- Biological Sciences, BS
- Business Administration, BS
- **Computer Science, BS (https://catalog.stlcc.edu/programs/signed-articulation-agreements/webster-computer-science/)**
- **Computer Science with Emphasis in Cybersecurity, BS (https://catalog.stlcc.edu/programs/signed-articulation-agreements/webster-computer-science/)**
- **Computer Science with Emphasis in Cybersecurity, BS and Cybersecurity Operations, MS (https://catalog.stlcc.edu/programs/signed-articulation-agreements/webster-computer-science/)**
- **Computer Science with Emphasis in Data Science, BS (https://catalog.stlcc.edu/programs/signed-articulation-agreements/webster-computer-science/)**
- **Computer Science with Emphasis in Software Engineering, BS (https://catalog.stlcc.edu/programs/signed-articulation-agreements/webster-computer-science/)**
- Dual Admission Program*
  - Nursing
- Entrepreneurship, BA
- **Film, Television, and Video Production, BA (https://catalog.stlcc.edu/programs/signed-articulation-agreements/webster-film-television-videoprod/)**
- Gleich Honors College Agreement
- **Graphic Design, BFA (https://catalog.stlcc.edu/programs/signed-articulation-agreements/webster-graphic-design/)**
- **Integrated Strategic Communications, BA (https://catalog.stlcc.edu/programs/signed-articulation-agreements/webster-integrated-strategic-communications/)**
- **Interactive Digital Media, BA (https://catalog.stlcc.edu/programs/signed-articulation-agreements/webster-interactive-digital-media/)**
- Management, BA
- **Media Production, BA (https://catalog.stlcc.edu/programs/signed-articulation-agreements/webster-media-production-ba/)**
- **Media Production, BA and Strategic Communications, MA (https://catalog.stlcc.edu/programs/signed-articulation-agreements/webster-media-production-ba-ma/)**
- Nursing, BSN
- Photography, BA
- **Sports Communication, BA (https://catalog.stlcc.edu/programs/signed-articulation-agreements/webster-sports-communication/)**
- **Sports Communication, BA and Strategic Communications, MA (https://catalog.stlcc.edu/programs/signed-articulation-agreements/webster-sports-communication-strategic-communications/)**

# William Woods University

- Deaf Communication Studies/Interpreter Training, BA/BS

Please note that articulation agreements are subject to change. Students should always confirm specific transfer and degree requirements with both St. Louis Community College and the partner institution to ensure the most accurate and up-to-date information.

* Students who participate in a Dual Admission Program maximize credit transfer, access resources and support at both institutions, and receive coordinated advising. Those who meet program and major-specific requirements are guaranteed admission with junior standing. Separate applications are required for each institution. See an advisor for details about Dual Admission programs with Missouri State University, University of Missouri-St. Louis, and Webster University.

# St. Louis Community College Academic Calendar

This calendar provides important dates for the academic year, including semester start and end dates, key registration and withdrawal deadlines, holiday closures, and final grade submission dates. Because course lengths vary (full semester, 12-week, 8-week, online sessions), you should always check your specific class schedule for exact dates.

## Summer Session 2026 calendar

| Date | Event |
|---|---|
| **May** | |
| 15 | Summer 2026 Course Sites Open |
| 18 | Summer 3-Week and 11-Week Classes Begin |
| 25 | Memorial Day (College Closed) |
| **June** | |
| 7 | Final Grades Due for 3-Week Classes at 11:59 p.m. |
| 8 | Summer 6-Week and 8-Week Classes Begin |
| 19 | Juneteenth Holiday (College Closed) |
| **July** | |
| 3 | Independence Day Holiday (College Closed) |
| **August** | |
| 2 | Last Day of Summer Term |
| 3 | Final Grades Due at 11:59 p.m. |
| 6 | Official Degree Conferral Date |
| 21 | Official Degree Conferral Date Posted to Transcripts |

## Fall Semester 2026 calendar

| Date | Event |
|---|---|
| **August** | |
| 17-21 | Faculty/Staff Service Days |
| 24 | Semester Begins |
| 24-30 | Add/Drop Week |
| **September** | |
| 7 | Labor Day (College Closed) |
| 21 | 12-Week Classes Begins |
| **October** | |
| 6 | Professional Development Day (No Classes) |
| 12-16 | Midterm Exams for 16 and 12-Week Classes |
| 19 | Final Grades for First 8-Week Due at 11:59 p.m. |
| 19 | Second 8-Week Classes Begin |
| 19 | Priority Registration Begins for Spring 2027 |
| 26 | Open Registration Begins for Spring 2027 |
| 26 | Midterm Grades Due 11:59 p.m. |
| **November** | |
| 13 | Withdrawal Deadline for Full-Semester Classes |
| 25 | Fall Break (No Classes) |
| 26-29 | Thanksgiving Break (College Closed) |
| **December** | |
| 13 | Last Day of Semester Classes |
| 14-20 | Final Exams |
| 21 | Final Grades Due at 11:59 p.m. |
| 23 | Official Degree Conferral Date |
| 24-January 3 | Winter Break |

| | |
|---|---|
| **January** | |
| 6 | Official Degree Conferral Date Posted to Transcripts |

# Spring Semester 2027 calendar

| Date | Event |
|---|---|
| **January** | |
| 4 | College Opens |
| 11-15 | Faculty/Staff Service Days |
| 18 | Martin Luther King, Jr. Day (College Closed) |
| 19 | Semester Begins |
| 19-25 | Add/Drop Week |
| **February** | |
| 8 | 12-Week Classes Begin |
| 15 | President's Day (College Closed) |
| **March** | |
| 8-12 | Midterm Exams for 16 and 12-Week Courses |
| 15 | Final Grades for First 8-Week Courses Due at 11:59 p.m. |
| 15-21 | Spring Break (No Classes) |
| 19-21 | Spring Holiday (College Closed) |
| 22 | Midterm Grades Due at 11:59 p.m. |
| 22 | Second 8-Week Classes Begin |
| 22 | Priority Registration Begins |
| 29 | Open Registration Begins |
| **April** | |
| 9 | Withdrawal Deadline for Full-Semester Classes |
| **May** | |
| 9 | Last Day of Semester Classes |
| 10-16 | Final Exams |
| TBD | Commencement Ceremony |
| 17 | Final Grades Due at 11:59 P.M. |
| 20 | Official Degree Conferral Date |
| **June** | |
| 4 | Official Conferral Date Posted to Transcripts |

# Summer Session 2027 calendar

| Date | Event |
|---|---|
| **May** | |
| 17 | Summer 3-Week and 11-Week Classes Begin |
| 31 | Memorial Day (College Closed) |
| **June** | |
| 6 | Final Grades for 3-Week Classes Due at 11:59 p.m. |
| 7 | Summer 6-Week and 8-Week Classes Begin |
| 18 | Juneteenth (College Closed) |
| **July** | |
| 5 | Independence Day (College Closed) |
| **August** | |
| 1 | Last Day of Summer Term |
| 2 | Final Grades Due at 11:59 p.m. |
| 5 | Official Degree Conferral Date |
| 20 | Official Conferral Date Posted to Transcripts |

# St. Louis Community College Foundation

## Mission

The St. Louis Community College Foundation exists to support STLCC students by raising critical funds and building awareness in support of the College's mission. Through the generosity of our community, we help ensure access to affordable, high-quality education for all.

To make a contribution to the St. Louis Community College Foundation, **donate online (https://stlcc.edu/about/foundation/ways-to-give.aspx)**, call 314-539-5472, or email **foundation@stlcc.edu**.

## Scholarships

Through the generosity of community supporters, STLCC Foundation offers more than 100 unique scholarship opportunities each year. These awards help students stay in school, reduce financial stress, and build the confidence needed to achieve their academic and career goals.

Each scholarship has specific eligibility criteria, which may include academic achievement, enrollment in a particular program, community involvement, and more.

Students must submit a **general scholarship application online (https://stlcc.academicworks.com/)**. Students are required to apply each academic year; scholarship awards are issued on a semester basis.

To apply, students must:

- Be enrolled at STLCC
- Complete a FAFSA
- Register for classes

To learn more, visit the **St. Louis Community College Foundation webpage (https://stlcc.edu/about/foundation/)**.

## Foundation Board of Directors

The STLCC Foundation Board is composed of dedicated local leaders who are passionate about the College's mission. Together, they provide strategic direction to ensure a strong future for the institution and its students.

To meet the Foundation Board, visit the **St. Louis Community College Foundation webpage (https://stlcc.edu/about/foundation/)**.

## Legacy Giving

Legacy giving ensures your values live on. By giving back to St. Louis Community College, you are helping to secure the work of an institution that provides opportunities and makes education an attainable dream for all. Through your will, trust, or other deferred gift, you can enjoy financial benefits now, while creating a lasting legacy that will benefit future generations of St. Louis Community College students for years to come.

Learn how you can support STLCC on the **St. Louis Community College Foundation webpage (https://stlcc.edu/about/foundation/legacy-giving/)**.

# STLCC Policies & Guidelines

## Consumer Information

In compliance with the Higher Education Amendments of 1998, Public Law 105-244, St. Louis Community College provides information on several consumer-education-related topics, including:

- General information about STLCC
- Financial aid information
- Completion, Graduation, and Transfer Rates Report
- Campus Crime Statistics (Clery Act Report)
- Drug and Alcohol Abuse Program Report
- Equity in Athletics (Title IX) Report
- Intercollegiate Athletics Annual Revenue/Expenditures (Title IX) Report

Additional information on these and other consumer topics can be found in the **College Policies and Procedures (https://www.stlcc.edu/college-policy-procedures/consumer-information/)**.

## Out-of-State Student & Consumer Complaints

St. Louis Community College is committed to providing a high-quality educational environment for its online learners. As such, we work to be alert to the needs of our students by maintaining an environment in which your concerns are heard and addressed in a fair and prompt manner. Complaints regarding any aspect of STLCC operations should be filed internally first and then, if necessary, to the appropriate external authorities.

If your concern is related to a specific course, you should first attempt to resolve the concern by having a real-time conversation with your instructor (not email) to ensure clear communication.

If the instructor is not available or reasonable efforts have been exhausted, reach out to **Online Education (https://app.smartsheet.com/b/form/2374270d27b9427687b8ad2d357397b7)** for assistance in resolution and in connecting with the appropriate offices or academic leadership.

For formal complaints, which must be submitted in writing and follow the process outlined under **Academic Rights and Responsibilities (https://stlcc.edu/college-policy-procedures/academic-rights-and-responsibilities/)**, you should review the information found on the **website (https://stlcc.edu/college-policy-procedures/academic-rights-and-responsibilities/)** carefully and complete the **online complaint form (https://stlcc.edu/college-policy-procedures/student-complaints/)** as appropriate.

For more information on the NC-SARA student complaint process, visit the **NC-SARA website (https://www.nc-sara.org/student-complaints)**.

Current or prospective students with a concern directly related to online education may contact the Online Education office directly for a prompt response.

In the unlikely event that a complaint cannot be resolved through STLCC's processes, in-state students may seek resolution through the **Department of Higher Education & Workforce Development (https://dhewd.mo.gov/policies/)**, and out-of-state students may file a complaint with their resident state licensing authority or US Territories Regulatory Agencies.

## Student Rights and Responsibilities

Students are responsible for their actions and are expected to comply with all federal, state, and local laws, as well as the rules and regulations of the College. They should be familiar with their rights related to educational access, complaint procedures, and available support resources. Additional details regarding Student Academic Rights and Responsibilities, the Student Code of Conduct, Academic Appeals, General and/or Academic Complaint processes, Title IX Sex Discrimination and Sex-Based Harassment Grievance Procedures, and the Equity and Discrimination Complaint Process are outlined in the **College Policies and Procedures (https://stlcc.edu/college-policy-procedures/)**.

# STLCC Health and Safety Policies

## STLCC Alerts

All STLCC students and employees are automatically set up to receive STLCC Alerts. However, to ensure you receive STLCC Alerts on your cell, work, and/or home phone, be sure to verify your emergency notification information. Students can verify this information in **Archer Connect (https://experience.elluciancloud.com/stlcc/)**. Employees can verify their emergency notification information in the Employee Dashboard in Archer Connect. Email notifications are automatically sent to your STLCC account.

STLCC Alerts will send direct messages in case of:

- Closing and delays
- Inclement weather and natural disasters
- Emergency and threats to personal safety

STLCC encourages all students, employees, and individuals who frequently visit STLCC campuses to keep text notifications enabled. However, data rates do apply to text messages sent through STLCC Alerts. To unsubscribe from texts via mobile, text “STOP” to 51664 to opt-out of emergency alerts.

You can resume emergency text messages at any time by texting “RESUME” to 51664.

For more information, visit the **STLCC Alerts page (https://stlcc.edu/about/police-safety/alerts.aspx)** on the STLCC website.

# Closing Procedures

The decision to cancel classes, delay the start of classes, or close campus due to weather or other emergencies is made by the college administration. Once a decision is made, all registered students will receive a notification via our ReGroup app, which is linked to the contact information on record. Emergency information is also available on **STLCC's website (http://www.stlcc.edu/)**, the College's social media accounts (**Facebook (https://www.facebook.com/STLCC/)** and **Instagram (https://www.instagram.com/stlccedu/)**), and the Emergency Hotline at 314-539-5454.

# Title IX: Sex Discrimination & Sex-Based Harassment

St. Louis Community College does not discriminate on the basis of sex and prohibits sex discrimination in any education program or activity that it operates, as required by Title IX, including admission and employment. The College's policies and response to incidents of sex discrimination or sex-based harassment comply with federal, state, and local laws, including Title VII, Title IX, and the Violence Against Women Act (VAWA). Supportive resources are available to those impacted by sex discrimination or sex-based harassment on and off campus.

Information on how to report an incident of concern, the process for addressing complaints, and where to find supportive resources can be found on the **College website (https://stlcc.edu/college-policy-procedures/title-ix/)**.

Inquiries may be referred to the College director for community standards/Title IX coordinator (**titleix@stlcc.edu /** 314-539-5345/ 3221 McKelvey Rd., Bridgeton, MO 63044), the **U.S. Department of Education's Office for Civil Rights (https://ocrcas.ed.gov/contact-ocr)**, or both. Reports or complaints of conduct that may constitute sex discrimination or sex-based harassment can be made orally or in writing via email to the director for community standards/Title IX coordinator or via the **College reporting form (https://stlcc.edu/college-policy-procedures/stlcc-cares/report-a-concern.aspx)**.

All students are encouraged to participate in the College's ongoing prevention and awareness efforts. A "Student Health and Safety Online Training and Resources" course is available through Canvas. Students will have free access to "Consent and Respect," an interactive learning module through which students explore consent, health relationships, bystander empowerment, and more. Students will also learn about resources at STLCC and in the community. **More information about accessing the training resource can be found on the Title IX webpage (https://stlcc.edu/college-policy-procedures/title-ix/)**.

# Student Code of Conduct

The college is committed to maintaining an environment that fosters learning and personal development. All members of the college community are responsible for their own behavior and are expected to be familiar with the rules and regulations of the college. Students are expected to uphold these standards of behavior and to respect the rights of others. Failure to comply with the Student Code of Conduct may result in a referral to the STLCC conduct process. More information on the Student Code of Conduct can be found on the **College website (https://stlcc.edu/college-policy-procedures/student-conduct-rights-and-responsibilities/)** and in **Administrative Procedures G.19 Student Code of Conduct (https://go.boarddocs.com/mo/stlcc/Board.nsf/goto?open&id=D66MDD5A642E)**.

# Staying Healthy

Take steps to maintain your health and well-being while enrolled at STLCC. Balancing academics, work, family, and other responsibilities can be challenging, but your health should remain a priority. If you need help accessing health care, the Student Advocacy and Resource Center staff can assist you. Remember, employees, students, and visitors who are ill should refrain from coming to campus or office spaces and should notify their instructors or supervisors as soon as possible.

# Firearms on College Property

Except for licensed police officers, no person shall possess or carry any firearm, visible or concealed, on any College property in any College vehicle, or at College-sponsored activities. Firearms, visible or concealed, are likewise prohibited in vehicles which are on College property, or on College-leased property, or on the property of a College-sponsored activity. No College official or employee may give consent under Missouri Statute for any person, other than a licensed police officer, to carry a concealed firearm into any College facility, property, or activity. College employees, who hold concealed carry endorsements as allowed by Missouri law, may not carry or bring any firearm, visible or concealed, on College Property, owned or leased, or at any College activity.

# Tobacco-Free Policy

The College is committed to providing an environment that is safe and healthy. The use of tobacco products, illegal substances, and all forms of electronic smoking or vaping devices is prohibited on all College property, including but not limited to vehicles. There will be no designated smoking areas within the property boundary. Violators may receive disciplinary action.

# Drug and Alcohol Abuse Prevention

In compliance with the Drug-Free Schools and Communities Act and the Drug-Free Workplace Act, St. Louis Community College is committed to providing a positive and healthy environment for students and employees.

Students and employees of St. Louis Community College assume the obligation to conduct themselves in a manner consistent with the college's function as an educational institution. Therefore, students and employees are expected to comply with local, state, and federal laws pertaining to alcoholic beverages, controlled substances, and illicit drugs. All faculty, staff, and students must comply with this policy as a condition of their employment or enrollment.

Student violations will be enforced through the policies set in the Code of Student Conduct. Sanctions may include verbal or written warnings, community service, probation, suspension, or expulsion.

Employee violations will be enforced through policies set in the appropriate faculty or staff handbooks and/or manuals. Disciplinary actions may include reprimand, warning, probation, reassignment, suspension without pay, or termination.

Sanctions for students and employees may also include referrals for appropriate counseling or to local law enforcement for prosecution for serious violations. If a student or employee is convicted of violating criminal laws pertaining to alcohol or drugs, they may be subject to civil action. Legal sanctions may include classes, community service, fines, prison terms, loss of driving privileges, or mandated rehabilitation programs.

**To learn more about Drug and Alcohol Prevention, visit STLCC's website.**

# STLCC Enrollment and Attendance Policies

## Attendance and Withdrawal

Students officially listed on a class roster are expected to attend all scheduled classes. Excessive absences, as defined by the instructor in the course syllabus, may impact the student's grade and could result in a failing grade. Attendance requirements should be clearly outlined during the first class meeting.

At the end of the second week of classes (first week for summer and interim sessions), students who have registered and paid but are reported by the instructor as never attending will be dropped from the course. Courses shorter than a full semester may have different administrative drop dates. Dropped courses will appear on the transcript with a grade of W, and students may be eligible for a partial refund of fees. After this period, students will not be automatically dropped and are responsible for initiating a withdrawal. Dual credit students are not dropped for non-attendance.

Students considering a withdrawal are encouraged to consult the instructor and an academic advisor before taking action. To formally withdraw, students must do so online through Archer Connect. Dual credit/enrollment students cannot withdraw online and should contact the office of **Dual Credit/Enrollment Partnerships (https://stlcc.edu/admissions/college-credit-in-high-school/dual-credit.aspx)** for assistance.

After withdrawal, students may not attend class. To receive a grade of W, the withdrawal must be completed before the end of the 12th week of the semester. Late-start, dual credit, and short-term courses have different withdrawal deadlines. Students should refer to the **STLCC College website for the appropriate withdrawal time frame (https://stlcc.edu/tuition/withdrawal/)**.

# Credit Hours and Course Load

The unit of credit at St. Louis Community College is the semester hour. Typically:

- Lecture courses: One credit is earned for each hour of lecture per week during a semester.
- Laboratory courses: One credit is usually granted for two to three hours of lab work per week during the semester.

Course load refers to the total number of credit hours in which a student is enrolled each week. Students taking 12 or more credit hours are classified as full-time and typically carry a course load of 12 to 18 credit hours.

Students wishing to enroll in more than 18 credit hours in a fall or spring semester or 12 credit hours in the summer session must have permission from the Office of Academic, Career, and Transfer Advising.

Students should plan to spend at least two hours of study and preparation outside of class for each credit hour of regular classroom work. For example, a student enrolled in 15 credit hours should budget a minimum of 30 hours per week for study outside class and laboratory sessions.

# Final Examinations

Each course requires a final, culminating experience which may take the form of a test, paper, project, or other activity appropriate to the course. Successful completion of this experience is required to receive a passing grade.

At least a portion of the final, culminating experience must occur during the scheduled final exam period. Absences from the final exam and the privilege of a make-up exam must be approved by the instructor.

# Academic Records and Grades

The Registrar's Office maintains records of academic performance for all currently enrolled students. Mid-semester grades, which reflect academic progress, may be obtained directly from the instructor in accordance with the Family Educational Rights and Privacy Act of 1974 (FERPA). These grades are not recorded on the permanent record and are not reported for any session.

Final grades are recorded on students' permanent academic records. Students may view their final grades and print unofficial transcripts by logging into **Archer Connect (https://stlcc.edu/departments/information-technology/banner-selfservice/)**.

# Grades: Computed in Grade Point Average

The following grading symbols and points are used:

| Grading Symbols | Grade Points | Percentages |
|---|---|---|
| A | 4 | Excellent |
| B | 3 | Above Average |
| C | 2 | Average |
| D | 1 | Below Average |
| F | 0 | Failing |

Note: A grade of D may not satisfy requirements in some degree or certificate programs.

## How GPA Is Calculated

Cumulative grade point average (GPA) is determined by multiplying the number of grade points for each grade (A, B, C, D) in a course at the College by the number of semester hours for that course, then dividing the total by the number of semester hours attempted. Transfer coursework is not included in the overall GPA.

# Grades: Not Computed in Grade Point Average

## I—Incomplete

This grade will normally indicate a situation in which the student has satisfactorily completed a major portion of the work and for reasons considered by the instructor to be beyond the student's control is prevented from completing required course work during the regular College term.

The student must complete the outstanding course work in a time frame established by the instructor, up to one calendar year, in order for the I to be changed to a letter grade. Student and instructor must enter into a written agreement describing the work to be completed, the grading criteria, and the time frame for completion.

Upon satisfactory completion of all work by the student, the instructor will initiate an appropriate grade change. After one year, if all requirements are not met, the I will automatically change to a permanent grade of F on the student's academic record. With the consent of the instructor, the one-year limit may be extended by the instructor, the department chair, or the dean. The written agreement must be given to the department chair, who, if an instructor leaves the employ of St. Louis Community College will assure evaluation of any work that might be completed.

## PR—Progress Re-enroll

Students making progress but not successfully completing course material may be awarded a grade of PR at discretion of the instructor. A PR grade represents no credits earned and will carry no grade point value. Students receiving PR grades may be permitted to re-enroll in the course or courses involved but must pay maintenance fees again. The PR grade is only available to courses below 100-level, PRD courses, and skills courses specifically approved by the district curriculum committee.

## R—Credit for Prior Learning

A grade to signify that credit has been earned by examination in situations in which the awarding of letter grades seems inappropriate. It does not count toward the residency requirement for graduation.

## T—Audit

A grade indicating enrollment with no intent to earn credit and with no implication concerning class attendance or skill accomplishment. This grade does not affect GPA. Auditing students must still pay tuition, meet prerequisites and follow course requirements. Changes between audit and credit must be made during the 50% refund period.

### S—Satisfactory

A grade indicating the award of credit. S grades may be awarded only in courses approved for this purpose under guidelines developed by the College. The earned credit(s) counts toward graduation but is not used in grade point average calculations.

### U—Unsatisfactory

A grade indicating the award of no credit and no grade points.

### W—Withdrawal—

A grade of W will be issued if a student initiates and completes the course withdrawal process by the end of the 12th week of the regular semester or corresponding times during other terms. Under rare and extenuating circumstances, the instructor or appropriate administrator may initiate a withdrawal on the student's behalf.

It does not affect GPA, but excessive withdrawals may impact academic standing or financial aid eligibility.

### NG—No Grade

This is a temporary designator that the instructor has not assigned a grade.

## Grades: Transfer Credit

Transfer grades indicate courses a student has completed at another school that STLCC has approved for credit. While these grades are not computed in the overall GPA, the credits can be applied to a student's declared degree if the courses meet STLCC program requirements.

The following codes indicate the letter grade earned at the previous school:

### TR

Transferable credit earned at another institution that has earned a grade of C or better prior to Spring 2024

### TD

Transferable credit earned at another institution that has earned a grade of D prior to Spring 2024

### TR-A

Transferable credit earned at another institution that has earned a grade of A

### TR-B

Transferable credit earned at another institution that has earned a grade of B

### TR-C

Transferable credit earned at another institution that has earned a grade of C

### TR-D

Transferable credit earned at another institution that has earned a grade of D

### TR-P

Transferable credit earned at another institution that has earned a grade of P. (P grade mode due to COVID related reasons must be notated on the transfer institution transcript)

## Academic Forgiveness

Students returning to St. Louis Community College after an absence of five calendar years may apply for academic forgiveness, which allows for a recalculation of their grade point average (GPA). The application for recalculation must be submitted during the first year of enrollment following the five-year absence.

Academic forgiveness is granted only once in a student's academic career at the College. All coursework with grades below C will be excluded from the GPA calculation. Courses removed from the GPA calculation will not be used to meet degree requirements, but all coursework will remain on the transcript.

## Repeating Courses

When a student repeats a course, the highest grade earned will be used in calculating cumulative credit hours and grade point average (GPA). All enrollments and grades, however, will remain on the transcript.

Students should obtain advisor approval before enrolling in the same course a third time.

Students planning to transfer should note that some institutions may recalculate GPAs for admissions purposes and include all grades earned.

# STLCC Program Information Policies

## Degrees and Certificates Offered

St. Louis Community College offers five associate degrees, one baccalaureate degree, the certificate of proficiency, and the certificate of specialization. Most degrees and certificates are designed for full- or part-time students.

- Associate degrees can typically be completed in two years of full-time study.
- Baccaureate degrees are generally completed in four years of full-time study.
- Certificates are usually completed in one or two semesters.

Because most students attend part-time, actual completion times may be longer.

### Associate in Arts (AA) Degree

St. Louis Community College offers an Associate in Arts (AA) degree to help students prepare for transfer to four-year institutions to complete a bachelor's degree. Students planning to transfer should:

- Review program requirements at the destination college or university.
- Share their goals with their STLCC advisor.

Many bachelor's programs have very specific requirements for the first and second years, and it is the student's responsibility to ensure that the courses will count toward the bachelor's degree. Advisors at each campus are familiar with a wide range of four-year institutions and can provide guidance on course selection to facilitate transferability.

### Associate in Fine Arts (AFA) Degree

St. Louis Community College offers an Associate in Fine Arts (AFA) degree with three degree options: General Fine Arts, Graphic Communications, and Photography. This degree is offered jointly with the University of Missouri - St. Louis (UMSL) and is designed for students planning to transfer to UMSL and earn a Bachelor of Fine Arts degree.

- Freshman and sophomore courses are offered at Florissant Valley, Forest Park, Meramec, and Wildwood campuses.
- Junior and senior courses take place on the UMSL campus.

UMSL accepts all art courses completed at STLCC, up to a maximum of 66 credit hours. Students should work with an STLCC advisor to ensure their courses will transfer. UMSL admission counselors are available at Florissant Valley, Forest Park, and Meramec to assist students with their transfer applications.

### Associate in Science (AS) Degree

The Associate in Science (AS) degree is designed for students planning to transfer into pre-professional or specialized programs.

This degree is substantively different from both the Associate in Applied Science (AAS) and the Associate in Arts (AA) degrees. The AS degree provides an alternative to the AA degree for fields that require specialized coursework in mathematics and science.

### Associate of Arts in Teaching (AAT) Degree

The Associate of Arts in Teaching (AAT) degree is a state-approved program that satisfies the Missouri's general education requirements.

- This program includes a contains a core area of concentration with four Teacher Education courses, consistent with all other Missouri community colleges.
- The curriculum is designed to facilitate seamless transfer to four-year colleges and universities.
- The AAT provides the first two years of study toward a bachelor's degree.
- The program is governed and accredited by the state of Missouri and meets the mid-preparation benchmarks for pre-service teachers by the state.

### Associate in Applied Science (AAS) Degree

The Associate in Applied Science (AAS) degree program helps students develop practical and theoretical skills for entry-level employment.

- AAS programs can typically be completed in two years of full-time study; however, many students attend part-time, which may extend completion time.
- Many courses are offered both day and evening, and some are available online.
- All AAS graduates must complete a minimum of 15 credit hours of general education courses.

### Bachelor of Science (BS) Degree

St. Louis Community College offers a Bachelor of Science degree.  The Bachelor of Science is a four-year undergraduate degree.  STLCC currently only offers one Bachelor of Science degree in Respiratory Care.

### Certificate of Proficiency

The Certificate of Proficiency is designed for students pursuing careers that do not require an associate degree. It is ideal for individuals seeking additional knowledge and skills in a specific field.

- Certificates of Proficiency typically require one year of full-time study to complete (30 credit hours or more).
- Students attending part-time may take longer to complete the program.

### Certificate of Specialization

The Certificate of Specialization is designed for students seeking knowledge and skills in a specific area, often related to a current job. This certificate may help students qualify for promotion, obtain professional certification, or enhance future employment opportunities.

- Certificates of Specialization require fewer than 30 credit hours
- Programs can be completed on a full- or part-time basis.

## Clinical and Field Work

Some degree and certificate programs at St. Louis Community College require clinical or other field experience as part of their curriculum.

- Students with criminal convictions or illegal drug use may be ineligible to progress in these programs.
- Healthcare facilities, educational institutions, and other field experience settings may require a criminal background check and/or drug screening, which are conducted at the student's expense.
- Students who do not pass these checks may be prohibited from participating in clinical or field experiences, which could prevent them from meeting the course or program requirements.
- The affiliates providing clinical and field work experiences may also require additional screens including but not limited to: recent physical examination, tuberculosis testing, current vaccinations and/or titer testing for immunity, current health insurance, CPR certification, or first aid certification.

Students should consult the program handbook or contact a program representative for more information.

## Change of Major

Students may change their major until:

- Friday of Week 4 for fall or spring terms
- Friday of Week 3 for the summer sessions

Before changing majors, students are required to work with an academic advisor to understand the potential implications. Financial aid is awarded only for courses that align with the student's current major at St. Louis Community College.

In certain cases, the student may request a re-evaluation of academic records to establish a new cumulative GPA. Courses with grades below a D will not be included in the recalculated GPA. Other courses may be applied if they fulfill the requirements of the new program. Coursework removed from GPA calculations cannot be used to meet degree requirements.

All courses will remain on the transcript.

## Graduation Requirements for an Associate Degree

To be eligible for an associate degree, students must:

- Be a degree-seeking student.
- Complete a minimum of 60 credit hours of college-level work, with a cumulative grade point average of 2.00 or higher in one of the programs listed in this catalog. Credit hours completed at another college are only computed in the minimum credit hours, not the cumulative grade point average.
- Complete a minimum of 15 credit hours applicable to the declared associate degree at St. Louis Community College.
  - A maximum of 9 credit hours in Special Topics courses may apply as unspecified electives toward the associate degree. Special Topics courses may not be applied as electives defined by disciplines such as “science-mathematics elective” or “humanities-communications elective.”
- Complete the Missouri Higher Education Civics Achievement Examination.
- Participate in an appropriate outcomes assessment prior to the degree being awarded.
- Complete one Missouri Civics course as defined by the state of Missouri.

Note: Completion of graduation requirements does not mean professional certification, registration, or approval to sit for board or licensing examinations.

## Graduation Requirements for a Baccalaureate Degree

To be eligible for a baccalaureate degree, students must:

- Be a degree-seeking student.
- Complete a minimum of 120 credit hours of college-level work, with a cumulative grade point average of 2.00 or higher in one of the programs listed in this catalog. Credit hours completed at another college are only computed in the minimum credit hours, not the cumulative grade point average.
- Complete a minimum of 30 credit hours applicable to the declared baccalaureate degree at St. Louis Community College.
- Complete the Missouri Higher Education Civics Achievement Examination.
- Participate in an appropriate outcomes assessment prior to the degree being awarded.
- Complete one Missouri Civics course as defined by the state of Missouri.

Note: Completion of graduation requirements does not mean professional certification, registration, or approval to sit for board or licensing examinations.

# Graduation Requirements for a Certificate of Proficiency

To be eligible for a certificate of proficiency, students must:

- Be a degree-seeking student.
- Complete a minimum of 30 credit hours of college-level work, with a cumulative grade point average of 2.00 or higher in one of the programs listed in this catalog. Credit hours completed at another college are only computed in the minimum credit hours, not the cumulative grade point average.
- Complete a minimum of 15 credit hours of college-level work applicable to the declared certificate of proficiency at St. Louis Community College.

Note: Completion of graduation requirements does not mean professional certification, registration, or approval to sit for board or licensing examinations.

# Graduation Requirements for a Certificate of Specialization

To be eligible for a certificate of specialization, students must:

- Be a degree-seeking student.
- Complete a minimum of 9 credit hours of college-level work, with a cumulative grade point average of 2.00 or higher in one of the programs listed in this catalog. Credit hours completed at another college are only computed in the minimum credit hours, not the cumulative grade point average. If a program is less than 9 credit hours, all college-level work that is applicable to the declared certificate of specialization must be completed with a cumulative grade point average of 2.00 or higher.
- Complete a minimum of 9 credit hours of college-level work applicable to the declared certificate of specialization at St. Louis Community College. If a program is less than 9 credit hours, all credits must be earned at St. Louis Community College.

Note: Completion of graduation requirements does not mean professional certification, registration, or approval to sit for board or licensing examinations.

# Second Associate Degree

Students seeking a second associate degree must complete at least 15 additional credit hours and satisfy the College's academic requirements for the new program.

# Application for Graduation

Students eligible to graduate with a degree or certificate will receive an email notification from the Registrar's Office before the start of week 8 for fall and spring, and before the start of week 4 in the summer. Students who do not wish to earn the degree or certificate they are eligible for must notify the Registrar's Office by the date listed in the email. Students who wish to change from non-degree-seeking to degree-seeking should complete all admission requirements for a degree-seeking student.

The degree date reflects the term of application for graduation. All degree requirements must be completed within two weeks of the official graduation date. Any exceptions must be approved by the chief campus academic officer. Students who do not complete degree requirements within the two weeks will need to reapply for graduation in the following term or later, depending on when all requirements for graduation have been met.

# Degree and Certificate Time Limits

Students are expected to complete degree and certificate requirements within six years of the date the program of study was declared. Students failing to meet the original time limit must meet the degree and certificate requirements of any catalog in effect within six years of the semester and year of application for graduation.

Former students returning to STLCC may petition their Campus President and Chief Academic Officer to continue the original program of study if the program was discontinued before their re-entry. Students may only petition to continue in a catalog under which they were previously enrolled. Not all petitions will be approved.

# Academic Honors

## Graduation Honors

Graduation honors are awarded based on the student's cumulative grade point average (GPA) as follows:

- Cum Laude: Cumulative GPA of 3.5 - 3.74
- Magna Cum Laude: Cumulative GPA of 3.75 - 3.99
- Summa Cum Laude: Cumulative GPA of 4.0

The appropriate honor designation will be recorded on the student's official transcript and diploma.

## Dean's List

The Dean's List recognizes students for outstanding academic achievement during a semester.

- Full-time students (enrolled in 12 or more credit hours) who earn a semester GPA of 3.5 or higher will be named to the Dean's list.
- Part-time students will be eligible for the Dean's List upon completion of each 12-credit hour increment (12, 24, 36, etc.) with a GPA of 3.5 or higher.

# Missouri Higher Education Civics Achievement Examination

All new students who are seeking an associate or bachelor's degree are required to take the Missouri Higher Education Civics Achievement Examination. This is also known as the Missouri Civics Exam (MCE).

## What you should know about the Missouri Civics Exam

- The exam is a graduation requirement for students at public colleges and universities in the state, and is a result of **Missouri Senate Bill 807 (https://senate.mo.gov/18info/BTS_Web/Bill.aspx?SessionType=R&BillID=69921012)**, which passed in 2018.
- At St. Louis Community College, the course is MCE 100 Missouri Civics Exam.
- Students register for MCE 100 the same way as any other course. You may enroll in MCE 100 any time after being accepted to STLCC. You do not need to complete any other courses before you register for the exam; it can be the first course you sign up for, if you choose.
- MCE 100 is zero credit hours; there is no cost.
- Preparation materials are online, hosted on **Canvas (https://stlcc.edu/programs-academics/online-education/canvas.aspx)**.
- Students may take the civics exam online as many times as necessary to pass.
- Although the class is zero credit, it must appear on your college transcript.
- The Missouri Civics Exam requirement does not apply to students who are seeking certificates.

# Satisfactory Academic Progress

All students are expected to make satisfactory academic progress. The standards of academic progress are:

- Good Standing—Cumulative 2.0 GPA after completing at least six credit hours.
- Academic Probation—Less than a cumulative 2.0 GPA after completing at least six credit hours.

This definition of satisfactory academic progress does not preclude the establishment of additional requirements for enrollment in specific programs (i.e., Title IV eligibility, veterans' benefits, etc.)

Failure to maintain satisfactory academic progress may result in probation or suspension. A student may remain on academic probation for a limited period of time.

## Academic Probation/Restricted Probation/Suspension

- Students on academic probation will not be allowed to self-advise. Once placed on probationary status, a student must achieve a cumulative GPA of 2.0 in the next academic term in which he or she is enrolled.
- Students who do not raise their cumulative GPA to 2.0 after one term on probation will be placed on restricted probation, which requires a student to sign a contract stipulating the conditions for remaining enrolled in the College. The Academic Advising department will direct the development of the restricted probation contract.
- Students on restricted probation will have two terms in which to raise their cumulative GPA to 2.0. If they fail to do so, they will be suspended from the College for one calendar year. Students on restricted probation who achieve a term GPA of 2.0 or higher will not be suspended but will remain on restricted probation until their cumulative GPA reaches 2.0. However, students on restricted probation will be suspended after any term in which their semester GPA falls below 2.0
- Students who return following the suspension year will continue on restricted probation and will be expected to achieve a 2.0 cumulative or term GPA during that first session, or they will be suspended from the College again for one year.
- Students may appeal decisions regarding restricted probation and suspension to the campus Probation/Suspension Appeals Committee.

- The College will notify students in writing that they have been placed on academic probation at the end of an academic term. The letters to the students will identify a specific individual or office to which all student inquiries are to be directed.
- The College informs students of how to avail themselves of a process designed to assist them in improving their academic performance.
- Students on academic probation may be allowed to participate in athletic programs according to NJCAA regulations or College policies and procedures.
- Students who wish to appeal their probation or suspension status may notify the campus chief academic officer in writing no later than five working days before the first day of class of the term in which they wish to enroll. The students explain their reasons for the appeal and why the probation/suspension should be rescinded.

# Student Records Policies

## Confidentiality of Student Records

The Family Educational Rights and Privacy Act (FERPA) affords eligible students certain rights with respect to their education records. An "eligible student" under FERPA is a student who is 18 years of age or older or who attends a postsecondary institution. These rights include:

- The right to inspect and review the student's education records within 45 days after the day the St. Louis Community College (STLCC) receives a request for access. A student should submit to the registrar, dean, head of the academic department, or another appropriate official a written request that identifies the record(s) the student wishes to inspect. The school official will make access arrangements and notify the student of the time and place where the records may be inspected. If the records are not maintained by the school official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.
- The right to request the amendment of the student's education records that the student believes are inaccurate, misleading, or otherwise in violation of the student's privacy rights under FERPA. A student who wishes to ask the school to amend a record should write the school official responsible for the record, clearly identify the part of the record the student wants changed, and specify why it should be changed. If the school decides not to amend the record as requested, the school will notify the student in writing of the decision and the student's right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.
- The right to provide written consent before the university discloses personally identifiable information (PII) from the student's education records, except to the extent that FERPA authorizes disclosure without consent. The school discloses education records without a student's prior written consent under the FERPA exception for disclosure to school officials with legitimate educational interests. A school official is a person employed by STLCC in an administrative, supervisory, academic, research, or support staff position (including law enforcement unit personnel and health staff); a person serving on the board of trustees; or a student serving on an official committee, such as a disciplinary or grievance committee. A school official also may include a volunteer or contractor outside of STLCC who performs an institutional service of function for which the school would otherwise use its own employees and who is under the direct control of the school with respect to the use and maintenance of PII from education records, such as an attorney, auditor, or collection agent or a student volunteering to assist another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibilities for STLCC.

The right to file a complaint with the U.S. Department of Education concerning alleged failures by STLCC to comply with the requirements of FERPA. The name and address of the Office that administers FERPA is:

**Family Policy Compliance Office**
U.S. Department of Education
400 Maryland Avenue, SW
Washington, DC 20202

More information about records and information that may or may not be disclosed, and other information regarding the confidentiality of student records, can be found in **Administrative Procedures G.14 Confidentiality of Student Records (https://go.boarddocs.com/mo/stlcc/Board.nsf/goto?open&id=BX8VNH818F99)**.

# Credit for Prior Learning (CPL)

St. Louis Community College participates in several programs that evaluate educational experiences gained through nontraditional college programs. These programs help the College and the student equate previously acquired knowledge to college credit.

Students should be aware that transfer policies for Credit for Prior Learning (CPL) vary among institutions. STLCC cannot guarantee that CPL credits awarded by another institution will transfer.

CPL credits are recorded on the student's transcript with a grade symbol of "R" rather than a letter grade. Students are encouraged to consult an academic advisor regarding the use of CPL in their educational planning.

Note: CPL cannot be applied toward the residency requirement for graduation.

### Advanced Placement (AP) Credit

Students who successfully complete college-level courses in high school may be eligible for credit by earning satisfactory scores or placement on the Advanced Placement (AP) Examination, administered by the College Board. AP exams are typically given at the end of the high school course.

Students seeking college credit or advanced placement should have official test scores sent to the Registrar's Office. College credit is awarded for a minimum score of 3 on the exam.

**The most up-to-date list of accepted AP exams and score requirements is available on the Registrar's Office webpage. (https://stlcc.edu/office-of-the-registrar/apcredit.aspx)**

## College Level Examination Program (CLEP)

The College Level Examination Program (CLEP) evaluates college-level learning, regardless of how or where the learning occurred. CLEP examinations, developed by the College Entrance Examination Board, are divided into general and subject exams. St. Louis Community College grants credit for subject exams.

- When the exam corresponds to a course offered at STLCC, credit will be applied to that specific course.
- When no course equivalent exists, credit may be granted as elective hours in the same field.
- Students with college credit should note that CLEP credit will not be awarded for a course they have already completed.

**The most up-to-date list of accepted CLEP exams and score requirements is available on the Registrar's Office webpage. (https://stlcc.edu/office-of-the-registrar/clep.aspx)**

## Credit by Examination

Students who have acquired knowledge in a course subject—through reading, job training, or other experiences—may petition to receive credit by examination.

Before taking the exam, students should discuss their preparation with the appropriate department chair. The chair may deny permission if the student is not sufficiently prepared. Tutoring is not provided, and passing the exam is not guaranteed.

Exams are graded on a pass/fail basis, and no letter grade is awarded. Students who pass the exam will have a grade symbol of "R" on their transcript, indicating credit by examination. Students planning to transfer should be aware that some institutions may not accept credit by examination.

Students wishing to pursue a departmental examination at STLCC should complete an Application for Departmental Proficiency Examination. Contact the department chair or the appropriate faculty person to obtain the application.

## Industry Credentials

Students may earn credit for some courses by demonstrating knowledge gained through industry certifications. To request credit, students should submit the following to the department chair or program coordinator:

- Certificate of completed training
- Lesson plan or training content (if available),
- Dates of attendance
- Proficiency exam scores
- Any other relevant documentation

Some departments may also require students to demonstrate knowledge through department assessments. Credit will only be awarded for training completed within the last five years.

**The most up-to-date list of Industry Certifications is available on the Registrar's Office webpage (https://stlcc.edu/office-of-the-registrar/industrycredentials.aspx)**.

## International Baccalaureate (IB) Credit

Students who have completed International Baccalaureate (IB) coursework are encouraged to send their IB transcripts to STLCC. Scores must be sent directly from the **International Baccalaureate Organization (https://www.ibo.org/programmes/diploma-programme/assessment-and-exams/getting-results/transcripts-faq/)**.

There is no fee for posting IB credit on a student's transcript. **The most up-to-date list of accepted IB exams and score requirements is available on the Registrar's webpage. (https://stlcc.edu/office-of-the-registrar/international-baccalaureate.aspx)**

## Military Educational and Training Credit

St. Louis Community College may award credit for military education and training through the following sources:

- Community College of the Air Force (CCAF)
- Army/American Council on Education Registry Transcript System (AARTS)
- Sailor/Marine American Council on Education Registry Transcript (SMART)

Credit is awarded based on the type of transcript, credit recommendations for military training schools, or ACE occupational credit recommendations.

### Portfolio Evaluation

Students may request credit for a course that does not have an established method for granting Credit for Prior Learning. In such cases, the student may submit a portfolio of work for review by a faculty member or department chair, as appropriate.

The student will meet with the department chair to complete the Approval of Alternative Credit for Prior Learning form, which outlines the requirements and expectations for earning the credit.

## National Student Clearinghouse Services

St. Louis Community College contracts with the National Student Clearinghouse to provide verification services to third parties and students. Third parties can obtain degree verification, enrollment verification, and verification of attendance through the **National Student Clearinghouse webpage (http://www.studentclearinghouse.org/)**.

Students with access to Archer Connect can print enrollment verification certificates to provide proof of enrollment to health insurers, housing providers, or other organizations.

## Transcripts

Official transcripts of grades and credit hours earned at St. Louis Community College are issued only by the Registrar's Office at the following location:

**Registrar's Office**
St. Louis Community College
5600 Oakland Ave.
St. Louis, MO 63110
314-539-5159

**Transcripts may be requested online through the National Student Clearinghouse's webpage (https://secure.studentclearinghouse.org/tsorder/faces/TOBridge).** A $11 fee is required for each transcript.

Students with access to Archer Connect may **view grades and print unofficial transcripts (https://stlcc.edu/departments/information-technology/banner-selfservice/).** Unofficial, free transcripts are available through the campus advising offices.

## Transfer Credit

To be eligible for acceptance of previously earned credit, students must be enrolled at St. Louis Community College as degree or certificate-seeking students with a declared program of study.

Official transcripts from other post-secondary institutions and documentation of military service should be mailed to the Registrar's Office. The College evaluates these transcripts for degree and prerequisite requirements in the same manner as credits earned at STLCC. All equivalent credits for which passing grades have been earned will be accepted if they fulfill the College's program and degree requirements.

Accepted transfer credits will be included in the cumulative credit hours at STLCC; however, grades earned at other institutions are not recorded and are not included in the cumulative grade point average.

The College is not obligated to accept another institution's Credit(s) for Prior Learning (CPL), nor are other institutions obligated to accept CPL earned at STLCC.

Transfer students may use the **College's Transfer Credit Appeals Process (https://stlcc.edu/college-policy-procedures/academic-rights-and-responsibilities/)** to challenge institutional decisions regarding the acceptance of credit(s) from regionally accredited Missouri public colleges and universities or those that have achieved candidacy status by the Higher Learning Commission.

## Transfer to Another School

Admission regulations for transfer students vary among receiving colleges and universities. Students planning to transfer credits should contact the receiving institution prior to enrollment to confirm transfer policies. While acceptance of credit is at the discretion of the transfer school, STLCC maintains articulation agreements that can facilitate the transfer process.

Generally, courses in college transfer programs satisfy various department, elective, and degree requirements at receiving schools. Career program courses are primarily designed to prepare students for the workforce; however, some courses and programs may be accepted by other colleges and universities. Students in career programs who plan to transfer should consult the receiving institution to determine which credits will transfer.

Students who have completed the Missouri CORE 42 may request that a statement be added to their transcript by emailing **registrar@stlcc.edu**.

The following Missouri colleges are signatories of the Missouri CORE 42 agreement:

- Avila University
- Central Methodist University

- Crowder College
- East Central College
- Harris-Stowe State University
- Jefferson College
- Lincoln University
- Lindenwood University
- Logan University
- Metropolitan Community College
- Mineral Area College
- Missouri Baptist University
- Missouri Southern State University
- Missouri State University
- Missouri State University-West Plains
- Missouri University of Science & Technology
- Missouri Western State University
- Moberly Area Community College
- North Central Missouri College
- Northwest Missouri State University
- Ozarks Technical Community College
- Rockhurst University
- Southeast Missouri State University
- St. Charles Community College
- St. Louis Community College
- State Fair Community College
- State Technical College of Missouri
- Three Rivers College
- Truman State University
- University of Central Missouri
- University of Missouri-Columbia
- University of Missouri-Kansas City
- University of Missouri-St. Louis
- Webster University

# Student Success Resources

## Academic, Career, and Transfer Advising

Student Success Advisors assist students in clarifying their educational goals and in developing strategies to achieve those goals. Student Success Advisors provide students with information about programs of study, course requirements, and college policies and procedures, as well as assistance and tools to clarify and take action on their career path. Academic plans developed by advisors and students lead to the timely completion of degrees or certificates. For students who plan to transfer, an advisor can explore with them the transfer requirements and suggest appropriate coursework; however, the responsibility for course selection and meeting degree and transfer requirements rests with each student. Advisors also provide assistance to students facing barriers to their education, including referrals to tutoring, counseling, and other non-academic needs.  Advising also assists students in the development of a resume and cover letter, interviewing skills, and job search strategies.

## Academic Success & Tutoring

The Academic Success and Tutoring department supports STLCC students across all schools and campuses, offering tutoring in a wide range of subjects - from general education courses like mathematics, writing, and science to specialized support for career and technical education (CTE) programs.

Virtual tutoring is available for subjects not offered on-site, and all students also have free access to Tutor.com, a 24/7 online tutoring service for convenient, around-the-clock support.

Our services are designed to complement classroom instruction and help students succeed academically. In addition to tutoring, academic coaching is available to help students build on their strengths, develop new learning strategies, and stay on track with their academic goals.

Personalized assistance is available on a walk-in or appointment basis. Whether you're brushing up on core skills or tackling advanced program coursework, we're here to support your success.

### Study Help

Studying effectively can make a big difference in how you understand and retain course material. Whether you're preparing for a test, tackling a tough chapter, or just want to study smarter, tools like study groups, guided practice, and time management techniques can help you stay on track. Connect with classmates through Navigate's Study Buddies feature or explore strategies that fit your learning style.

For more personalized support, our Academic Support and Tutoring services are also available to help you build effective study habits.

## Access Office and Disability Support Services

The college offers support services for students who have documented disabilities of a temporary or permanent nature. The Access Office provides the following services:

- Coordination of classroom and testing accommodations and support services.
- Individual advising and academic counseling.
- Consultation with faculty and staff members regarding student accommodation needs.
- Liaison with community professionals and agencies.

To qualify for services, students must contact the Access Office of their choice to complete the Application for Services and schedule an initial meeting. Accommodations are generally not provided retroactively, so it is important for students to apply for accommodations and provide documentation early in the enrollment process. This allows more time to implement reasonable accommodations. Please note, there is no deadline to apply for services, as students may submit their application and documentation at any time during their tenure at the college.

**For more information, contact the Access Office at the campus of your choice (https://www.stlcc.edu/access)**.

## Archer Connect

Archer Connect is a centralized hub that serves as the gateway to Banner Self-Service and other key applications. Students can register for classes, view their schedules, check grades, pay tuition, access financial aid, update personal information, manage academic records, access Canvas, and schedule an appointment with tutoring or advising by logging into **Archer Connect (https://stlcc.edu/departments/information-technology/banner-selfservice/)**.

## Assessment

St. Louis Community College (STLCC) collects and uses assessment data to improve student learning, academic achievement, and overall institutional effectiveness. When combined with thoughtful interpretation by faculty and staff, assessment supports the overall decision-making needs of the college and the specific decision-making needs of individual units and programs.

Students are often asked to participate in assessment activities to provide key information to college officials and inform decision-making about STLCC educational programs or student services. Such assessments are intended to provide helpful information to administrators and do not impact students' grades or academic standing. Faculty, staff, and administrators regularly assess the performance of courses, programs, or departments to ensure that their desired outcomes are being achieved. Outcomes assessment is how STLCC can guarantee that it is fulfilling its mission to make data-informed decisions that are in the best interest of the students and the institution. This mission-based approach to assessment helps the college focus its efforts and keep its promise to the St. Louis community.

### Course Assessment

In course assessment, academic faculty and administrators decide which courses to assess and which assessment measures to use. The goal is to gather the information that will allow departments to make collegewide changes in courses to increase student learning. These ongoing assessments are necessary to sustain the credibility and transferability of courses and the programs that require them.

### Program Assessment

The college offers several programs, both academic and career, which are assessed to ensure that they are meeting the standards set by both professionals in the field and various accrediting agencies. Doing so assures students that they are participating in programs whose standards are recognized and accepted by other programs and institutions.

### Institutional Assessment

The college assesses its various services and operations on an annual basis. College and student support services are assessed to determine how well they are accomplishing their institutional mission. Various external agencies expect colleges to assess and improve student learning and institutional effectiveness. These agencies include regional accrediting bodies like the Higher Learning Commission, professional accrediting bodies for career programs like nursing, and government agencies.

# Athletics

Districtwide varsity sports offered by the College include baseball, Esports, softball, volleyball, men's and women's basketball, and men's and women's soccer. Students attending any STLCC location can participate in district-wide varsity sports.

The College is a member of the National Junior College Athletic Association and the Missouri Community College Athletic Conference.

# Campus Life

Campus Life creates a vibrant community that supports student engagement and success by providing opportunities for all students to develop a sense of belonging and connection. Campus Life sponsors various social, educational, cultural, and civic events and activities. Opportunities for leadership development are available through student government, clubs and organizations, honorary societies, student publications, and special interest groups. Providing opportunities to engage in campus events and join student organizations promotes students' leadership development and personal growth, as well as improved relationships with others. For informal gatherings, the campuses provide facilities such as multi-purpose meeting rooms, lounges, study areas, and cafeterias. Engaging in campus life initiatives supports students' academic success and leadership development.

# Campus Parking

Parking is free for all students at STLCC. Accessible parking is available with the appropriate tag. To learn more, **contact the Access office on your campus (https://stlcc.edu/student-support/disability-services/)**.

# Canvas

Canvas is STLCC's learning management system and the central online hub for many of your courses. Instructors across all learning formats - on campus, online, Hyflex, LVL, and hybrid - use Canvas to share course materials, post announcements, collect assignments, and more.

You can log into Canvas anytime using your STLCC credentials via the Student Resources page.

To help you get started, all students are automatically enrolled in Learning & Succeeding at STLCC - a self-paced orientation in Canvas designed to help you explore its features and build your confidence using the platform.

# Child Care

The Child Development Centers located at the Forest Park and Florissant Valley campuses offer child care services for children of STLCC students. **For more information, visit the Child Care webpage (https://www.stlcc.edu/student-support/personal-support/child-care.aspx)**. Student parents will also find support and resources in the Student Advocacy & Resource Centers (SARC). SARC offers diapers, wipes, and basic infant and toddler care supplies through the Archer's Markets and Family Resource Centers. SARC staff also assist eligible students in locating childcare services and in applying for state childcare benefit assistance. For more information, visit the **Student Advocacy & Resource Center webpage (https://stlcc.edu/student-support/personal-support/student-advocacy-resource-center.aspx)**.

# Counseling Services

St. Louis Community College prioritizes the mental well-being of our student community. A staff of highly trained Licensed Professional Counselors is available to assist students experiencing psychological and adjustment concerns while attending college. Counseling services are free and confidential to all currently enrolled STLCC students. Students receive personalized support in a safe, empathetic, and nonjudgmental space.

Call or text 314-539-5151, email **counseling@stlcc.edu**, or stop by any Counseling office to set up an appointment. **For more information, visit the Counseling Service webpage (https://stlcc.edu/student-support/counseling/).**

# Degree Works

Degree Works is St. Louis Community College's interactive degree audit tool. The degree audit can be accessed through Archer Connect to track a student's progress, monitor requirements, and plan for graduation with clarity and confidence.

# Distance Learning

Distance Learning is a flexible educational option where some or all instruction occurs when students and instructors are not in the same location. Using technology, these courses achieve the same learning outcomes as traditional classroom courses.

Instruction can be:

- Asynchronous: Learning happens online using technology, and students and instructors are rarely online at the same time. While there are set due dates each week that must be met, students can choose when to participate and complete course activities.
- Synchronous: Learning happens in real-time, with students and instructors online at the same time through the use of technology.

Regardless of the method, student learning outcomes are consistent across all course delivery formats. Reliable access to the necessary technology and the Internet is required for participation. For more details, visit **Ways to Learn at STLCC (https://stlcc.edu/admissions/preparing-for-the-semester/classroom-modalities.aspx)**.

### Face-to-Face Courses

These courses are taught in person, with instruction and assessments delivered on campus during scheduled class times. Regular attendance is required as part of the learning experience.

### Online Courses

All instruction takes place online, allowing students flexibility in when and where they complete coursework. However, online classes include set deadlines for assignments and assessments that must be followed. Some courses may require proctored exams, which may be required to be completed on campus, at an approved testing center, or through STLCC's virtual proctoring service. Certain classes may also include scheduled online sessions or live activities that require students to be online at specific times - check course details carefully for any real-time participation requirements.

### Hybrid (Blended) Courses

Hybrid courses combine in-person and online instruction. A portion of the course involves scheduled, on-campus class meetings, while the remainder is completed online. This format balances face-to-face engagement with the convenience of online learning. Students should plan for regular campus attendance.

### Live Virtual Lecture (LVL) Courses

LVL courses are held online in real time. Students attend class at scheduled dates and times using a streaming platform, actively participating through webcam and microphone. This format provides a live classroom experience from a remote location. A reliable internet connection is essential.

### Flexibility Requires Responsibility

Online and hybrid courses offer students flexibility because there are very few or no scheduled class meetings. Students who participate in online and hybrid courses must be self-motivated, independent learners with good to very good computer and internet skills. These courses have deadlines just like traditional classes, and students will need excellent time management skills to succeed.

Students taking online or hybrid courses should have access to a computer with a reliable high-speed internet connection. Online and hybrid courses rely on email for most communication, so students should activate their **STLCC email account (https://stlcc.edu/departments/information-technology/student-email/)** and check it daily. **More information about student email activation is available on the Get Connected webpage (https://www.stlcc.edu/student-support/campus-technology/get-connected.aspx).** STLCC uses the Canvas learning management system for online coursework. **Resources to help students access and become familiar with Canvas are available on the Online-Education webpage (https://stlcc.edu/programs-academics/online-education/canvas.aspx).**

To determine if online classes will be a good fit for you, complete the SmarterMeasure online learning readiness assessment. **Log in to SmarterMeasure (https://stlcc.smartermeasure.com)**; type in "online" as the Username and "learner" as the Password. SmarterMeasure will provide you with information and tools to help you succeed in online courses. If you have questions or need assistance, contact the Online Education Department at 314-513-4771 or **online@stlcc.edu**.

## First Year Experience

The First Year Experience at STLCC begins with Archer Orientation, which consists of virtual and in-person options to help orient students to their campus and the various resources and programs available to them at STLCC. After orientation, the First Year Experience consists of monthly learning modules, seminars, and additional co-curricular programming to help new students transition to college, as well as to develop skills crucial to their success at STLCC and beyond. **For more information, visit the First Year Experience webpage (https://stlcc.edu/campus-life-community/new-student-programs.aspx).**

## Higher Education Opportunity Act

The Higher Education Opportunity Act of 2008 requires that St. Louis Community College take action to address the unauthorized distribution of copyrighted materials, including music, video, and programs. If a student uses college technology resources to perform unauthorized distribution or sharing of such materials, the student will be in violation of college policy as well as subject to criminal and/or civil prosecution for violation of copyright and other federal and state laws.

The college monitors its computer systems to protect against such activity. Outside organizations are also able to trace activity involving copyrighted materials. If a violation is detected by either the college or an outside organization, student access to college technological resources will be immediately disabled. Students will need to communicate with the appropriate administrator before privileges will be reinstated. The student will also be subject to disciplinary action by the college.

The information will also be turned over to the appropriate authorities for possible criminal and/or civil prosecution.

Learn more about the **Higher Education Opportunity Act (https://stlcc.edu/college-policy-procedures/consumer-information/copyright-information.aspx)**.

## Honors College

The Honors College seeks to empower students to engage deeply in their courses, foster a spirit of inquiry, and develop the skills necessary for meaningful contributions to society. We strive to inspire a passion for knowledge across the Honors curriculum. Through rigorous coursework, research opportunities, and/

or community engagement, we prepare our students to excel after graduation - whether at a transfer institution or in the workforce - and to thrive in diverse professional landscapes, inspiring them to become innovative leaders and responsible global citizens in an interconnected world.

Students may apply for admission to the Honors Program on the **STLCC Honors College Website (https://stlcc.edu/programs-academics/honors/)**. Admission to the program is based on the following: Returning students must have a cumulative GPA of 3.5 or higher after completing at least 12 credit hours of college-level coursework. New STLCC students must have a cumulative high school GPA of 3.5 or higher (on a 4.0 scale), or an ACT score of 26 or higher. Students who meet these criteria should apply online and will be automatically accepted. Those who do not meet the academic criteria may apply online to be considered for provisional acceptance.

Students may earn honors credit either by enrolling in honors courses or completing honors projects within regular courses. An honors designation is added to a student's transcript for successful completion of honors work within a course. Graduates who earn 15 credit hours of honors credit and have a cumulative GPA of 3.5 or higher will receive the designation of Honors Scholar on their diplomas and transcripts.

Honors students may apply for a limited number of scholarships through an Honors coordinator.

For more information, visit the **STLCC Honors College website (https://stlcc.edu/programs-academics/honors/)** to contact the Honors Director or a campus Honors Coordinator.

# International Education

St. Louis Community College offers opportunities for students, faculty, staff, and community members to learn about the world through study abroad experiences, international exchanges and partnerships, intercultural programs, and globalized curriculum. The programs cover various academic subjects and world destinations each year. Participants gain knowledge and skills that make them more competitive in the global workforce. To learn more about **International Education at STLCC (https://stlcc.edu/programs-academics/international-education/)**, call us at 314-644-9671 or email the **International Education Coordinator (csulincevski@stlcc.edu)**.

# Libraries

**STLCC Libraries (https://stlcc.edu/libraries/)** offer a wide range of print and online resources, including books, articles, videos, and images, to support student learning and research. Computers, printers, quiet study spaces, and collaborative study areas are available at each of the campus libraries. Students may also borrow laptops, Wi-Fi hotspots, and other equipment to support their educational needs. Students may request books from any campus library or from other libraries that participate in the MOBIUS Consortium.

**Research help (https://stlcc.edu/libraries/ask-librarian.aspx)** is available through chat, text, or email in addition to drop-in hours at the campus libraries, and by individual online or in-person appointments.

# Placement Testing

St. Louis Community College uses multiple measures for placing students into their initial courses, including previous coursework, high school GPA, and standardized test scores. Placement testing may be required before advisement and registration. St. Louis Community College uses a computerized placement test. The placement test gives essential information about prospective students' academic skills and needs. Test results indicate whether students are college-ready or will require additional support for college-level academics.

If documentation cannot be provided, students will be required to take the appropriate placement tests. Scores will remain valid for up to three years from the semester in which the test was taken; thereafter, students will be required to retake the test. GPAs do not expire. Contact the **Testing Center (https://stlcc.edu/admissions/testing-centers/)** for hours of operation.

If you are a student with a disability and need accommodations for your entry assessment, call the **Access office (https://stlcc.edu/student-support/disability-services/)** for an appointment before testing. You must provide current written documentation of a disability.

For more information, contact the campus Access office. Individuals with speech or hearing impairments may call via Relay Missouri by dialing 711.

## English

STLCC determines English placement based on 3 levels.

1. Level 1 is recommended (not required) for students who demonstrate the need to enroll in additional English support.
2. All students have the option to start at Level 2.
3. Students who place at Level 3 aren't required to take developmental English coursework.

Check out the criteria for each level on the Registrar's Office **webpage (https://stlcc.edu/office-of-the-registrar/english-placement.aspx)**.

## Math

STLCC determines math placement based on 6 levels.

1. Level 1 is recommended (not required) for students who demonstrate the need to enroll in additional math support.
2. All students have the option to start at Level 2.
3. Students who meet specific criteria may opt for the math classes available at Level 3.
4. Level 4 is researched for students who place into Precalculus Algebra.
5. Level 5 is reserved for students who place into Precalculus Algebra, Survey of Calculus, or Trigonometry.
6. Level 6 is reserved for students who place into Analytic Geometry & Calculus I.

Reading proficiency is required for all math classes 100-level or higher.

Check out the criteria for each level on the Registrar's Office **webpage (https://stlcc.edu/office-of-the-registrar/math-placement.aspx)**.

### Multiple Measures/High School GPA for Placement

Where dual credit/enrollment students do not possess a seven-semester GPA, the GPA cannot be used as a stand-alone measure for placement. STLCC will allow the student to use the metric that places him/her into the highest level based on STLCC placement charts, provided that more than one measure is available for review to allow the student, parent/guardian, and high school liaison to make informed decisions about their placement.

Dual enrollment students who do not meet the requirements for placement into college-level courses should not be enrolled in 000-level coursework. Students who wish to enroll in math with support coursework (MTH S courses) may only do so if they have expressed permission on that semester's dual enrollment authorization form from their high school liaison and parent or guardian.

### Reading

STLCC determines reading placement based on 4 levels.

1. Level 1 is recommended (not required) for students who demonstrate a need to enroll in additional reading support.
2. All students have the option to start at Level 2.
3. Students who meet specific criteria may opt for the additional reading support class in Level 3.
4. Students who place at Level 4 aren't required to take additional reading coursework.

Check out the criteria for each level on the **Registrar's Office webpage (https://stlcc.edu/office-of-the-registrar/reading-placement.aspx)**.

## Student Advocacy & Resource Center

The Student Advocacy & Resource Center (SARC) provides support and resources for students experiencing barriers that may hinder their successful enrollment and continued success at St. Louis Community College. Services are tailored to meet the individual needs of each student and include helping students identify and access assistance programs for childcare, food insecurity, healthcare, homelessness, interpersonal or domestic violence, transportation, utility assistance, and more. The Archers' Market food and personal care pantry provides students in need of a place to access available resources and learn about additional programs and services. SARC resources and services are available for all STLCC students. Other services include creating action plans with students to resolve problems interfering with their education and to learn self-advocacy. Students in need of program verification or support with public assistance programs should also connect with the Student Advocacy & Resource Center. **For more information, visit the Student Advocacy & Resource Center webpage. (https://stlcc.edu/student-support/personal-support/student-advocacy-resource-center.aspx)**

## Student ID Cards

New students age 17 or older enrolled in credit courses are required to activate an STLCC OneCard. Photos can be taken in the Campus Life office at Florissant Valley, Forest Park, and Meramec, or the Information Desk at Wildwood, South County Education Center, and Harrison Education Center. This card is the college's student identification card and can be used as a debit card depending on your selected refund preference with BankMobile Disbursements, a technology solution, powered by BMTX, Inc. **Visit the BankMobile Disbursements website for more information (https://bankmobiledisbursements.com/refundchoicesid/).**

The card is also required for checking out library books and other materials; for use of recreational facilities, and learning labs; attending student activities and sporting events, and for personal check approval. **Learn more about how to obtain your STLCC OneCard (https://stlcc.edu/student-support/one-card.aspx).**

## Textbooks

View the **STLCC Online Bookstore and Campus Store (https://stlcc.textbookx.com/institutional/)** webpage for information about your textbooks.

Students can purchase their textbooks and course materials online at the **STLCC Online Bookstore website (https://stlcc.textbookx.com/institutional/).** It is advised to order early, as shipping textbooks can take up to five business days. Students are able to use financial aid and other scholarships/awards two weeks before classes start, on the STLCC Online Bookstore website.

To view and/or purchase textbooks:

1. Visit **STLCC Online Bookstore (https://stlcc.textbookx.com/institutional/).**
2. Log in with your MySTLCC ID and password.

3. Select Textbooks.
4. Check out and deliver.

Note: Textbooks and course materials will not be housed on any campus. Students must visit the website to place online orders and have textbooks shipped to their home or to campus, while digital course material access is emailed.

## TRIO Student Support Services

TRIO Student Support Services (SSS) is a federally funded TRIO program designed to support first-generation college students, students with disabilities, and/or students with limited income who meet federal income guidelines. TRIO SSS programs offer a variety of support services, including academic advising, career exploration, transfer planning, education to improve financial and economic literacy, information on applying for Federal Student Aid, assistance with completing the FAFSA, academic tutoring & success planning, peer mentoring, and more. **For more information, visit the TRIO Student Support Services webpage. (https://stlcc.edu/student-support/trio.aspx)**

# Workforce and Community Programs

## Workforce Solutions Group

St. Louis Community College Workforce Solutions Group (WSG) connects job seekers and employment providers with customized and accelerated training. We also offer opportunities for exploring new personal enrichment and professional development courses through Continuing Education. WSG supports our region's workers, our companies, and provides lifelong learning opportunities for all. We provide regional labor insights via the annual **State of the St. Louis Workforce Report (https://stlcc.edu/workforce/st-louis-workforce/)**. Learn more on the **Workforce Solutions webpage (https://stlcc.edu/workforce/).**

## Advancing Employers: Corporate Services

Corporate Services offers customized and comprehensive solutions for workers who are already employed with our region's companies. As one of the largest providers of training and consulting services in the St. Louis metro area, this department helps advance more than 5,000 employees annually, representing dozens of organizations in healthcare, transportation, and advanced manufacturing sectors. The unit also offers enterprise-wide solutions for organizations with national and international footprints. Corporate Services also provides rental space for company training activities at **Corporate College (https://www.stlcc.edu/workforce/corporate-college/),** where the **Certification Testing Center** is also located. Visit the **Corporate Services webpage (https://stlcc.edu/workforce/corporate-college/)** to learn more or contact us to discuss your company's unique training needs.

## Advancing Communities: Workforce Training

WSG offers short-term skills training opportunities for the region's workers and a talent pipeline for employers. These programs help job seekers develop marketable skills through accelerated training programs, usually with a duration of less than one semester. Explore training opportunities in advanced manufacturing, healthcare, and transportation that lead to jobs and a new career. **Visit the Short-Term Career Training webpage to learn more (https://stlcc.edu/workforce/training-programs/)**.

WSG also offers community support through HiSET training to prepare students for taking the GED high school equivalency test. Students can opt for a Fast Track option to focus on specific topics that need to be refreshed, or take the full HiSET program for a more comprehensive review. ESL is also offered in conjunction with partners across the region.

## Advancing People: Continuing Education

Continuing Education (CE) enrolls thousands of participants annually in professional development and personal enrichment courses. Each year, CE offers over 1,000 courses at locations throughout the greater St. Louis region and online, often in partnership with other community organizations. Thousands of St. Louisans enjoy lifelong learning through CE, expanding their interests and growing their professional skills. Learn more on the **CE's webpage (https://stlcc.edu/programs-academics/continuing-education/).**

# General Transfer Studies: AA

**Associate in Arts | 60 credit hours minimum**

**Program Website (https://stlcc.edu/programs-academics/pathways/general-transfer/general-transfer-studies.aspx)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

## Program Description:

St. Louis Community College's Associate in Arts degree program provides students with the first two years of study toward a bachelor's degree with a major in almost any area at a four-year college or university. Students completing the Associate in Arts degree requirements will have completed the 42 credit hours of general education requirements for all public colleges and universities in Missouri. These courses from various general areas become the foundation for advanced study in a number of disciplines.

The 42 credit hours of **general education courses (p. 416)** provide an opportunity for students to develop skills and knowledge that will enhance their lives far beyond graduation. Students who complete the 42-credit hour block of general education courses will have "CORE 42" noted on their transcripts. Students who complete this block will have satisfied all general education at any Missouri public college or university to which they may transfer. Many private institutions also accept the 42-credit hour block to satisfy their general education requirements. Students wishing to transfer to a four-year institution should consult an advisor for specific requirements.

In addition to the 42 credit hours of CORE 42 general education, students will select 18 credit hours to complete the 60-credit hour Associate in Arts degree. Students should work closely with an advisor to select courses that are transferable to a degree program at a four-year institution. For students who have clear academic goals, these courses may be in a specified academic field, while other students may use these credits to sample a variety of courses to help them determine future academic plans.

Students should become familiar with the requirements at the institution to which they plan to transfer and select their transfer courses carefully. Many bachelor's degree programs have very specific requirements for the freshman and sophomore years, and it is the transferring student's responsibility to ensure that courses will apply to the bachelor's degree. Students are encouraged to talk to an advisor to assist in planning a program of study or if they are considering a change in academic plans. Information about the requirements of many transfer institutions is available at **stlcc.edu/transfer (http://www.stlcc.edu/transfer)**.

**Locations.** This program is offered in its entirety at Florissant Valley, Forest Park, Meramec, Wildwood, and Online.

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

## At the completion of the program, students are expected to:

1. explore and integrate ideas and concepts from diverse fields of academic study to further academic, personal, and professional inquiry.
2. use quantitative, qualitative, and communication skills to define problems and propose solutions.
3. identify and apply contributions from a range of academic disciplines to conceptualize and explain enduring and contemporary issues.
4. analyze the ethical implications of choices that reflect diversity of cultural, religious, economic, or historic perspectives or experiences.

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **General Education** [1] | | |
| Written Communications | | 6 |
| Oral Communications | | 3 |

| | | |
|---|---|---|
| Mathematics | Students must complete one (1) of the four (4) courses in the Mathematics pathway (MTH 160, MTH 161, MTH 180, or MTH 185), or a course that requires one of the Mathematics pathways courses as a prerequisite. [2] | 3 |
| Social and Behavioral Sciences | Students must complete nine (9) credit hours from at least two (2) different disciplines. One course must be an approved Civics course. | 9 |
| Humanities and Fine Arts | Students must complete nine (9) credit hours from at least two (2) different disciplines. There is a limit of three (3) credit hours of Performance courses that can be applied to the Humanities and Fine Arts Knowledge Area and to the total CORE 42. | 9 |
| Natural Sciences | Students must complete seven (7) credit hours from at least two (2) different disciplines. One course must contain a laboratory component. | 7 |
| CORE 42 Elective | Any course designated with a MOTR number can be used to reach 42 credit hours with the exception of a limit of three (3) credit hours of Performance courses. No more than three (3) credit hours of Performance courses can be applied to the entire 42-credit hour CORE 42 general education block. [2] | 5 |
| **Electives** | | |
| Elective credits within the Associate in Arts degree allow the student to begin working toward an academic major by selecting courses within a discipline or to explore various subjects at an introductory level. Students should consult their transfer institution and/or work with an advisor for best course options. | | 18 |
| **Total Credit Hours** | | **60** |

1 Students who complete the 42-credit hour general education block according to CORE 42 guidelines will have "CORE 42" noted on their transcripts. (Students who complete 42 credit hours of general education but who varied from the CORE 42 requirements will have "General Education Completed" noted on their transcript--This applies only to students with a catalog year of 201830 or earlier.)

2 Only 3 credit hours from MTH 160S, MTH 161S, and MTH 180S will apply toward the degree.

# Full-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

General Education Courses (https://catalog.stlcc.edu/general-education/)

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| XXX xxx | Written Communications Requirement (p. 416) | 3 | | Discuss academic plan and elective choices with an academic advisor. |
| XXX xxx | Mathematical Sciences Requirement (p. 416) | 3 | | |
| XXX xxx | Oral Communications Requirement (p. 416) | 3 | | |
| XXX xxx | Humanities and Fine Arts Requirement (p. 416) | 3 | | A total of 9 credit hours in humanities and fine arts from at least 2 different disciplines are required for the degree. |
| XXX xxx | Elective | 3 | | |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | Meet with an academic advisor to review your academic progress by end of semester. |
| XXX xxx | Written Communications Requirement (p. 416) | 3 | | |

| | | | | |
|---|---|---|---|---|
| XXX xxx | Natural Sciences with Lab Requirement (p. 416) | 4 | | |
| XXX xxx | Humanities and Fine Arts Requirement (p. 416) | 3 | | |
| XXX xxx | CORE 42 Elective (p. 416) | 3 | | |
| | **Credit Hours** | **16** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| XXX xxx | Social and Behavioral Sciences Requirement (p. 416) | 3 | | Discuss academic progress with an advisor by the end of semester. |
| XXX xxx | Humanities and Fine Arts Requirement (p. 416) | 3 | | |
| XXX xxx | Natural Sciences Requirement (p. 416) | 3 | | Must be different discipline from lab course. |
| XXX xxx | CORE 42 Elective (p. 416) | 2 | | |
| XXX xxx | Elective | 3 | | |
| | **Credit Hours** | **14** | | |
| **Spring** | | | | |
| XXX xxx | Social and Behavioral Sciences Requirement (p. 416) | 3 | | Apply for graduation. |
| XXX xxx | Elective | 3 | | |
| XXX xxx | Elective | 3 | | |
| XXX xxx | Elective | 3 | | |
| XXX xxx | Elective | 3 | | |
| | **Credit Hours** | **15** | | |
| | **Total Credit Hours** | **60** | | |

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Focus Areas

These focus areas are intended for students who plan to transfer to the University of Missouri - St. Louis (UMSL) after completion of their associate's degree at St. Louis Community College. Your official degree that you will be pursuing at St. Louis Community College within these focus areas is the Associate in Arts - General Transfer Studies.

- **Focus Area: Communication (p. 47)**
- **Focus Area: Criminal Justice (p. 51)**
- **Focus Area: Psychology (p. 54)**
- **Focus Area: Social Work (p. 57)**

# Articulation Agreements

Articulation agreements are formal partnerships between St. Louis Community College and colleges or universities that outline how completed coursework transfers toward a specific degree program. These agreements help students continue their education by ensuring the credits earned at STLCC apply toward bachelor's degree requirements at the partner institution. STLCC continually collaborates with colleges and universities to establish new agreements that support a smooth transfer process.

Below is a list of current partner institutions with active articulation agreements for the Associate in Arts - General Transfer Studies. Some programs include links to academic plans. If a program does not have a linked plan available, students should meet with an academic advisor to obtain the appropriate plan and guidance.

### Missouri State University

- Dual Admission Program (https://www.missouristate.edu/Transfer/st-louis-community-college.htm)

### Saint Louis University (SLU)

- 2+SLU Agreement (https://catalog.slu.edu/academic-policies/office-admission/undergraduate/2plusslu/stlcc/)

### Southern Illinois University - Edwardsville

- Actuarial Sciences, Bachelor of Science
- Applied Mathematics, Bachelor of Science
- Mathematics Education Grades 9-12 Illinois Licensure, Bachelor of Science
- Pure Mathematics, Bachelor of Science
- Statistics, Bachelor of Science

### University of Missouri - Columbia

- Bachelor of Health Science in Clinical and Diagnostic Sciences with Emphasis in Nuclear Medicine (https://catalog.stlcc.edu/programs/signed-articulation-agreements/mizzou-clinical-diagnostic-sciences/)

### Webster University

- Bachelor of Science in Computer Science (https://catalog.stlcc.edu/programs/signed-articulation-agreements/webster-computer-science/)
- Bachelor of Science in Computer Science with an Emphasis in Cybersecurity (https://catalog.stlcc.edu/programs/signed-articulation-agreements/webster-computer-science/)
- Bachelor of Science in Computer Science with an Emphasis in Cybersecurity and a Master of Science in Cybersecurity Operations (https://catalog.stlcc.edu/programs/signed-articulation-agreements/webster-computer-science/)
- Bachelor of Science in Computer Science with an Emphasis in Data Science (https://catalog.stlcc.edu/programs/signed-articulation-agreements/webster-computer-science/)
- Bachelor of Science in Computer Science with an Emphasis in Software Engineering (https://catalog.stlcc.edu/programs/signed-articulation-agreements/webster-computer-science/)
- Bachelor of Arts in Film, Television, and Video Production (https://catalog.stlcc.edu/programs/signed-articulation-agreements/webster-film-television-videoprod/)
- Bachelor of Arts in Integrated Strategic Communications (https://catalog.stlcc.edu/programs/signed-articulation-agreements/webster-integrated-strategic-communications/)
- Bachelor of Arts in Interactive Digital Media (https://catalog.stlcc.edu/programs/signed-articulation-agreements/webster-interactive-digital-media/)
- Bachelor of Arts in Media Production (https://catalog.stlcc.edu/programs/signed-articulation-agreements/webster-media-production-ba/)
- Bachelor of Arts in Media Production and Master of Arts in Strategic Communications (https://catalog.stlcc.edu/programs/signed-articulation-agreements/webster-media-production-ba-ma/)
- Bachelor of Arts in Sports Communication (https://catalog.stlcc.edu/programs/signed-articulation-agreements/webster-sports-communication/)
- Bachelor of Arts in Sports Communication and Master of Arts in Strategic Communications (https://catalog.stlcc.edu/programs/signed-articulation-agreements/webster-sports-communication-strategic-communications/)
- Bachelor of Fine Arts with an Emphasis in Studio Art (https://catalog.stlcc.edu/programs/signed-articulation-agreements/webster-studio-art/#aageneraltransferstudiespathwaytext)

# Focus Area: Communication

This focus area is intended for students who plan to major in Communication at a 4 year college or university, after completion of their associate's degree at St. Louis Community College. Your official degree that you will be pursuing at St. Louis Community College within this focus area is the **Associate in Arts - General Transfer Studies (p. 44).**

# Focus Area: Communication Full-Time Academic Plan

This academic plan is a recommended sequence for this pathway. It serves as **a general guideline** to help you build a course schedule each term that supports your timely completion. The College has made every effort to ensure its accuracy**.** However, **the map is not a substitute for academic advisement—contact your advisor if you have any questions about your degree requirements.**

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | This fulfills part of the written communications requirement. |
| COM 201 | Interpersonal Communication (MOTR COMM 120) | 3 | Reading Proficiency | This fulfills the oral communication requirement. |
| MCM 101 | Introduction to Mass Communications (MOTR SBSC 100) | 3 | Reading Proficiency | This fulfills part of the social and behavioral science requirement. |
| Choose one of the following: | | 4 | | This fulfills part of the humanities requirement |
| SPA 101 | Elementary Spanish I (MOTR LANG 103) | | Reading Proficiency | |
| FRE 101 | Elementary French I (MOTR LANG 101) | | Reading Proficiency | |
| GER 101 | Elementary German I (MOTR LANG 105) | | Reading Proficiency | |
| Choose one of the following: | | 3 | | This fulfills the mathematics requirement |
| MTH 161 | Quantitative Reasoning (MOTR MATH 120) | | Satisfactory score on placement test and Reading Proficiency | |
| MTH 180 | Introductory Statistics (MOTR MATH 110) | | Satisfactory scores on placement test, and Reading Proficiency | |
| MTH 160 | Precalculus Algebra (MOTR MATH 130) (or higher) | | MTH 140 (or MTH 140S) with a minimum grade of "C" or satisfactory score on placement test, and Reading Proficiency | |
| | **Credit Hours** | **16** | | |
| **Spring** | | | | |
| ENG 102 | College Composition II (MOTR ENGL 200) | 3 | ENG 101 with a minimum grade of "C" and Reading Proficiency | This fulfills part of the written communications requirement. |
| Choose one of the following: | | 4 | | This fulfills part of the humanities requirement. |
| SPA 102 | Elementary Spanish II (MOTR LANG 104) | | SPA 101 with a minimum grade of "C" or 2 years of high school Spanish and Reading Proficiency | |
| FRE 102 | Elementary French II (MOTR LANG 102) | | FRE 101 with a minimum grade of "C" or 2 years of high school French and Reading Proficiency | |
| GER 102 | Elementary German II (MOTR LANG 106) | | GER 101 with a minimum grade of "C" or 2 or more years of high school German, and Reading Proficiency | |
| XXX xxx | Elective | 3 | | See options listed below. |

| | | | | |
|---|---|---|---|---|
| XXX xxx | Natural Science with Lab | 4 | | Science must be from different disciplines. One course must be a lab. See suggestions listed below. |
| | **Credit Hours** | **14** | | |
| **Summer** | | | | |
| MCE 100 | Missouri Civics Examination | 0 | | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | This fulfills the civics requirement. |
| | **Credit Hours** | **3** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| XXX xxx | Natural Science Elective | 3 | | Science must be from different disciplines. One course must be a lab. See suggestions listed below. |
| Choose one of the following: | | 3 | | This fulfills part of the humanities requirement. |
| PHL 103 | World Religions (MOTR RELG 100) | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| ENG 231 | World Literature (MOTR LITR 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| Choose one of the following: | | 3 | | This fulfills part of the CORE 42 elective. |
| COM 103 | Small Group Communication (MOTR COMM 125) | | Reading Proficiency | |
| MCM 131 | History of Film (MOTR FILM 103) | | Reading Proficiency | |
| XXX xxx | Elective | 3 | | See options listed below. |
| Choose one of the following: | | 4 | | This fulfills part of the elective requirement. |
| SPA 201 | Intermediate Spanish I | | SPA 102 with a minimum grade of "C" or 3 or more years of high school Spanish, and Reading Proficiency | |
| FRE 201 | Intermediate French I | | FRE 102 with a minimum grade of "C" or three years of high school French and Reading Proficiency | |
| GER 201 | Intermediate German I | | GER 102 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **16** | | |
| **Spring** | | | | |
| Choose one of the following: | | 3 | | This fulfills part of the social and behavioral science requirement. |
| COM 200 | Communication Between Cultures (MOTR SBSC 101) | | Reading Proficiency | |
| SOC 101 | Introduction to Sociology (MOTR SOCI 101) | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| PSY 200 | General Psychology (MOTR PSYC 100) | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| ANT 102 | Introduction to Cultural Anthropology (MOTR ANTH 201) | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| Choose one of the following: | | 3 | | This fulfills part of the elective requirement. |

| | | | | |
|---|---|---|---|---|
| COM 103 | Small Group Communication (MOTR COMM 125) | | Reading Proficiency | |
| MCM 131 | History of Film (MOTR FILM 103) | | Reading Proficiency | |
| XXX xxx | Elective | 3 | | See options listed below. |
| XXX xxx | Elective | 3 | | See options listed below. |
| | **Credit Hours** | **12** | | |
| | **Total Credit Hours** | **61** | | |

# Natural Science Elective

| Code | Title | Credit Hours |
|---|---|---|
| **Natural Science Lab** | | |
| MOTR BIOL Discipline | | |
| BIO 111 | Introductory Biology (MOTR BIOL 100L) | 4 |
| BIO 124 | General Botany I (MOTR BIOL 100LB) | 4 |
| MOTR LIFS Discipline | | |
| BIO 106 | Human Heredity (MOTR LIFS 100LG) | 4 |
| MOTR CHEM Discipline | | |
| CHM 101 | Fundamentals of Chemistry I (MOTR CHEM 100L) | 5 |
| CHM 105 | General Chemistry I (MOTR CHEM 150L) | 5 |
| CHM 109 | Chemistry and the Environment (MOTR CHEM 100L) | 4 |
| MOTR GEOL Discipline | | |
| GEO 111 | Physical Geology (MOTR GEOL 100L) | 5 |
| **Natural Science Non-Lab** | | |
| MOTR ASTR Discipline | | |
| PSI 111 | Introduction to Astronomy I (MOTR ASTR 100) | 3 |
| MOTR BIOL Discipline | | |
| BIO 117 | Conservation and Ecology (MOTR BIOL 100EC) | 3 |
| MOTR GEOG Discipline | | |
| GEG 103 | Physical Geography (MOTR GEOG 100) | 3 |
| MOTR PHYS Discipline | | |
| GEO 100 | Earth Science (MOTR PHYS 110ES) | 3 |
| GEO 113 | Oceanography (MOTR PHYS 110O) | 3 |
| PSI 101 | Physical Science (MOTR PHYS 110) | 3 |

# Recommended Elective

| Code | Title | Credit Hours |
|---|---|---|
| COM 104 | Persuasion | 3 |
| THT 115 | Acting for the Camera | 3 |
| or MCM 115 | Acting for the Camera | |
| MCM 140 | Introduction to Advertising | 3 |
| MCM 141 | Public Relations | 3 |

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Focus Area: Criminal Justice

This focus area is intended for students who plan to major in Criminal Justice at a 4 year college or university, after completion of their associate's degree at St. Louis Community College. Your official degree that you will be pursuing at St. Louis Community College within this focus area is the **Associate in Arts - General Transfer Studies (p. 44).**

# Focus Area: Criminal Justice Full-Time Academic Plan

This academic plan is a recommended sequence for this pathway. It serves as **a general guideline** to help you build a course schedule each term that supports your timely completion. The College has made every effort to ensure its accuracy**.** However, **the map is not a substitute for academic advisement—contact your advisor if you have any questions about your degree requirements.**

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | This fulfills part of the written communications requirement. |
| Choose one of the following: | | 3 | | This fulfills the oral communications requirement |
| COM 101 | Oral Communication I (MOTR COMM 100) | | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | |
| COM 107 | Public Speaking (MOTR COMM 110) | | Reading Proficiency | |
| COM 201 | Interpersonal Communication (MOTR COMM 120) | | Reading Proficiency | |
| COM 103 | Small Group Communication (MOTR COMM 125) | | Reading Proficiency | |
| COM 112 | Argumentation and Debate (MOTR COMM 220) | | Reading Proficiency | |
| XXX xxx | Humanities and Fine Arts Elective | 3 | | Must be from 2 separate disciplines. |
| SOC 203 | Introduction to Criminology (MOTR CRIM 205) | 3 | Reading Proficiency | This fulfills part of the social and behavioral science requirement. |
| Choose one of the following: | | 3 | | This fulfills the mathematics requirement. |
| MTH 161 | Quantitative Reasoning (MOTR MATH 120) | | Satisfactory score on placement test and Reading Proficiency | |
| MTH 180 | Introductory Statistics (MOTR MATH 110) | | Satisfactory scores on placement test, and Reading Proficiency | |
| MTH 160 | Precalculus Algebra (MOTR MATH 130) (or higher) | | MTH 140 (or MTH 140S) with a minimum grade of "C" or satisfactory score on placement test, and Reading Proficiency | |
| | **Credit Hours** | **15** | | |

| | | | | |
|---|---|---|---|---|
| **Spring** | | | | |
| ENG 102 | College Composition II (MOTR ENGL 200) | 3 | ENG 101 with a minimum grade of "C" and Reading Proficiency | This fulfills part of the written communications requirement. |
| Choose one of the following: | | 3 | | This fulfills part of the social and behavioral science requirement. |
| PSY 200 | General Psychology (MOTR PSYC 100) | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| SOC 101 | Introduction to Sociology (MOTR SOCI 101) | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| CRJ 122 | Introduction to Criminal Justice (MOTR CRJS 101) | 3 | Reading Proficiency | This fulfills part of the elective requirement. |
| XXX xxx | Humanities and Fine Arts Elective | 3 | | Must be from 2 different disciplines |
| XXX xxx | Natural Science Elective | 3 | | Science must be from two different disciplines. One course must be a lab. |
| | **Credit Hours** | **15** | | |
| **Summer** | | | | |
| MCE 100 | Missouri Civics Examination | 0 | | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | This fulfills the civics requirement. |
| | **Credit Hours** | **3** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| XXX xxx | Natural Science Elective with Lab | 4-5 | | Science must be from different disciplines. One course must be a lab. See suggestions listed below. |
| Choose one of the following: | | 3 | | This fulfills part of the humanities requirement. |
| PHL 103 | World Religions (MOTR RELG 100) | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| ENG 231 | World Literature (MOTR LITR 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| CRJ 101 | American Correctional System | 3 | Concurrent or prior enrollment in CRJ 122 with a minimum grade of "C" and Reading Proficiency | This fulfills part of the elective requirement. |
| CRJ 124 | Criminal Law and Procedures | 3 | Concurrent or prior enrollment in CRJ 122 with a minimum grade of "C" and Reading Proficiency | This fulfills part of the elective requirement. |
| | **Credit Hours** | **13-14** | | |
| **Spring** | | | | |
| IS 116 | Computer Literacy | 3 | Reading Proficiency | This fulfills part of the elective requirement. |
| PSY 208 | Abnormal Psychology | 3 | PSY 200 with a minimum grade of "C" and Reading Proficiency | This fulfills part of the elective requirement. |
| SOC 211 | Substance Use, Abuse, and Dependence | 3 | Reading Proficiency | This fulfills part of the elective requirement. |
| XXX xxx | CORE 42 Elective | 5 | | See options listed below. |
| | **Credit Hours** | **14** | | |
| | **Total Credit Hours** | **60-61** | | |

# Natural Science Electives

| Code | Title | Credit Hours |
|---|---|---|
| **Natural Science Lab** | | |
| MOTR BIOL Discipline | | |
| BIO 111 | Introductory Biology (MOTR BIOL 100L) | 4 |
| BIO 140 | Principles of Biology I (MOTR BIOL 150L) | 5 |
| MOTR CHEM Discipline | | |
| CHM 101 | Fundamentals of Chemistry I (MOTR CHEM 100L) | 5 |
| CHM 105 | General Chemistry I (MOTR CHEM 150L) | 5 |
| CHM 109 | Chemistry and the Environment (MOTR CHEM 100L) | 4 |
| MOTR GEOL Discipline | | |
| GEO 111 | Physical Geology (MOTR GEOL 100L) | 5 |
| **Natural Science Non-Lab** | | |
| MOTR ASTR Discipline | | |
| PSI 111 | Introduction to Astronomy I (MOTR ASTR 100) | 3 |
| MOTR BIOL Discipline | | |
| BIO 113 | Modern Aspects of Biology (MOTR BIOL 100) | 3 |
| BIO 117 | Conservation and Ecology (MOTR BIOL 100EC) | 3 |
| MOTR CHEM Discipline | | |
| CHM 123 | Fundamentals of Forensic Chemistry (MOTR CHEM 100) | 3 |
| MOTR GEOL Discipline | | |
| GEO 103 | Environmental Geology (MOTR GEOL 100) | 3 |
| MOTR LIFS Discipline | | |
| BIO 109 | Human Biology (MOTR LIFS 100) | 3 |
| BIO 151 | Biology of Human Health and Disease (MOTR LIFS 100D) | 3 |

# Recommended CORE 42 Electives

| Code | Title | Credit Hours |
|---|---|---|
| ENG 103 | Report Writing (MOTR ENGL 110) | 3 |
| ECO 140 | Introduction to Economics (MOTR ECON 100) | 3 |
| ECO 151 | Principles of Macroeconomics (MOTR ECON 101) | 3 |
| ECO 152 | Principles of Microeconomics (MOTR ECON 102) | 3 |
| PSY 200 | General Psychology (MOTR PSYC 100) | 3 |
| PSY 205 | Human Growth and Development (MOTR PSYC 200) | 3 |
| SOC 101 | Introduction to Sociology (MOTR SOCI 101) | 3 |
| SOC 202 | Social Problems (MOTR SOCI 201) | 3 |
| SOC 204 | Introduction to Family Studies (MOTR SOCI 204) | 3 |
| SOC 212 | Race and Ethnicity (MOTR SOCI 202) | 3 |
| SOC 216 | Introduction to Gender Studies (MOTR SOCI 203) | 3 |

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Focus Area: Psychology

This focus area is intended for students who plan to major in Psychology at a 4 year college or university, after completion of their associate's degree at St. Louis Community College. Your official degree that you will be pursuing at St. Louis Community College within this focus area is the **Associate in Arts - General Transfer Studies (p. 44).**

# Focus Area: Psychology Full-Time Academic Plan

This academic plan is a recommended sequence for this pathway. It serves as **a general guideline** to help you build a course schedule each term that supports your timely completion. The College has made every effort to ensure its accuracy**.** However, **the map is not a substitute for academic advisement—contact your advisor if you have any questions about your degree requirements.**

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

This academic plan is for students who intend to major in the Bachelor of Arts in Psychology.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | This fulfills part of the written communications requirement. |
| PSY 200 | General Psychology (MOTR PSYC 100) | 3 | Reading Proficiency or concurrent enrollment in RDG 079 | This fulfills part of the social and behavioral science requirement. |
| Choose one of the following: | | 4 | | This fulfills part of the humanities requirement. |
| SPA 101 | Elementary Spanish I (MOTR LANG 103) | | Reading Proficiency | |
| FRE 101 | Elementary French I (MOTR LANG 101) | | Reading Proficiency | |
| GER 101 | Elementary German I (MOTR LANG 105) | | Reading Proficiency | |
| Choose one of the following: | | 3-5 | | This fulfills the mathematics requirement. |
| MTH 160 | Precalculus Algebra (MOTR MATH 130) | | MTH 140 (or MTH 140S) with a minimum grade of "C" or satisfactory score on placement test, and Reading Proficiency | |
| MTH 160S | Precalculus Algebra with Support (MOTR MATH 130) | | Satisfactory score on placement test and Reading Proficiency | |
| MTH 185 | Precalculus (MOTR MATH 150) | | MTH 140 (or MTH 140S) with a minimum grade of "C" or satisfactory score on placement test, and Reading Proficiency | |
| | **Credit Hours** | **13-15** | | |
| **Spring** | | | | |
| ENG 102 | College Composition II (MOTR ENGL 200) | 3 | ENG 101 with a minimum grade of "C" and Reading Proficiency | This fulfills part of the written communications requirement. |
| BIO 111 | Introductory Biology (MOTR BIOL 100L) [1] | 4 | Reading Proficiency or concurrent enrollment in RDG 079 | This fulfills part of the natural science requirement and will fulfill the natural science with lab requirement. |

| | | | | |
|---|---|---|---|---|
| Choose one of the following: | | 4 | | This fulfills part of the humanities requirement. |
| SPA 102 | Elementary Spanish II (MOTR LANG 104) | | SPA 101 with a minimum grade of "C" or 2 years of high school Spanish and Reading Proficiency | |
| FRE 102 | Elementary French II (MOTR LANG 102) | | FRE 101 with a minimum grade of "C" or 2 years of high school French and Reading Proficiency | |
| GER 102 | Elementary German II (MOTR LANG 106) | | GER 101 with a minimum grade of "C" or 2 or more years of high school German, and Reading Proficiency | |
| Choose one of the following: | | 3 | | This fulfills the oral communications requirement. |
| COM 101 | Oral Communication I (MOTR COMM 100) | | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | |
| COM 103 | Small Group Communication (MOTR COMM 125) | | Reading Proficiency | |
| COM 107 | Public Speaking (MOTR COMM 110) | | Reading Proficiency | |
| COM 201 | Interpersonal Communication (MOTR COMM 120) | | Reading Proficiency | |
| COM 112 | Argumentation and Debate (MOTR COMM 220) | | Reading Proficiency | |
| | **Credit Hours** | **14** | | |
| **Summer** | | | | |
| MCE 100 | Missouri Civics Examination | 0 | | |
| Choose one of the following: | | 3 | | This fulfills the civics requirement. |
| HST 101 | United States History to 1865 (MOTR HIST 101) | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| HST 102 | United States History from 1865 to the Present (MOTR HIST 102) | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| PSC 101 | Introduction to American Politics (MOTR POSC 101) | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| PSY 205 | Human Growth and Development (MOTR PSYC 200) | 3 | PSY 200 with a minimum grade of "C" and Reading Proficiency | This fulfills part of the social and behavioral science requirement. |
| | **Credit Hours** | **6** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| Choose one of the following: | | 3 | | This fulfills part of the natural science requirement. |
| GEO 103 | Environmental Geology (MOTR GEOL 100) | | Reading Proficiency | |
| GEO 100 | Earth Science (MOTR PHYS 110ES) | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| BIO 109 | Human Biology (MOTR LIFS 100) | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| BIO 151 | Biology of Human Health and Disease (MOTR LIFS 100D) | | Reading Proficiency | |
| BIO 154 | The Biology of Human Sex (MOTR LIFS 100R) | | Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| PSI 101 | Physical Science (MOTR PHYS 110) | | MTH 108 or MTH 140S with a minimum grade of "C", or placement into MTH 140 or higher, and Reading Proficiency | |
| Choose one of the following: | | 3 | | This fulfills part of the humanities requirement. |
| PHL 103 | World Religions (MOTR RELG 100) | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| ENG 231 | World Literature (MOTR LITR 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| Choose one of the following: | | 4 | | This fulfills part of the elective requirement. |
| SPA 201 | Intermediate Spanish I | | SPA 102 with a minimum grade of "C" or 3 or more years of high school Spanish, and Reading Proficiency | |
| FRE 201 | Intermediate French I | | FRE 102 with a minimum grade of "C" or three years of high school French and Reading Proficiency | |
| GER 201 | Intermediate German I | | GER 102 with a minimum grade of "C" and Reading Proficiency | |
| PSY 206 | Introduction to Social Psychology | 3 | PSY 200 with a minimum grade of "C" and Reading Proficiency | This fulfills part of the elective requirement. |
| XXX xxx | Elective | 3 | | See recommended elective listed below. |
| | **Credit Hours** | **16** | | |
| **Spring** | | | | |
| XXX xxx | CORE 42 Elective | 3 | | Choose any ANT, SOC, ECO, or PSC MOTR course. |
| PSY 208 | Abnormal Psychology | 3 | PSY 200 with a minimum grade of "C" and Reading Proficiency | This fulfills part of the elective requirement. |
| XXX xxx | Elective | 3 | | See recommended elective listed below. |
| PHL 109 | Bio-Medical Ethics | 3 | Reading Proficiency | This fulfills part of the elective requirement. |
| | **Credit Hours** | **12** | | |
| | **Total Credit Hours** | **61-63** | | |

[1] If student is interested in the Bachelor of Science - Psychology, BIO 140, CHM 105, or PHY 111 are recommended for the lab science requirement. The science requirement must be from two different disciplines.

# Recommended Electives

| Code | Title | Credit Hours |
|---|---|---|
| CRJ 101 | American Correctional System | 3 |
| CRJ 122 | Introduction to Criminal Justice (MOTR CRJS 101) | 3 |
| CRJ 124 | Criminal Law and Procedures | 3 |
| PSY 203 | Child Psychology | 3 |
| or PSY 214 | Adolescent Psychology | |
| SOC 101 | Introduction to Sociology (MOTR SOCI 101) | 3 |
| SOC 202 | Social Problems (MOTR SOCI 201) | 3 |
| SOC 203 | Introduction to Criminology (MOTR CRIM 205) | 3 |
| SOC 211 | Substance Use, Abuse, and Dependence | 3 |

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Focus Area: Social Work

This focus area is intended for students who plan to major in Social Work at a 4 year college or university, after completion of their associate's degree at St. Louis Community College. Your official degree that you will be pursuing at St. Louis Community College within this focus area is the **Associate in Arts - General Transfer Studies (p. 44).**

# Focus Area: Social Work Full-Time Academic Plan

This academic plan is a recommended sequence for this pathway. It serves as **a general guideline** to help you build a course schedule each term that supports your timely completion. The College has made every effort to ensure its accuracy**.** However, **the map is not a substitute for academic advisement—contact your advisor if you have any questions about your degree requirements.**

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | This fulfills part of the written communications requirement. |
| Choose one of the following: | | 3 | | This fulfills the oral communications requirement. |
| COM 101 | Oral Communication I (MOTR COMM 100) | | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | |
| COM 107 | Public Speaking (MOTR COMM 110) | | Reading Proficiency | |
| COM 201 | Interpersonal Communication (MOTR COMM 120) | | Reading Proficiency | |
| COM 103 | Small Group Communication (MOTR COMM 125) | | Reading Proficiency | |
| SOC 101 | Introduction to Sociology (MOTR SOCI 101) | 3 | Reading Proficiency or concurrent enrollment in RDG 079 | This fulfills part of the social and behavioral science requirement. UMSL requires a C or better for the BSW program. |
| Choose one of the following: | | 3 | | This fulfills the mathematics requirement. |
| MTH 161 | Quantitative Reasoning (MOTR MATH 120) | | Satisfactory score on placement test and Reading Proficiency | |
| MTH 160 | Precalculus Algebra (MOTR MATH 130) | | MTH 140 (or MTH 140S) with a minimum grade of "C" or satisfactory score on placement test, and Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| Choose one of the following: | | 3 | | This fulfills part of the humanities requirement. Foreign Language is recommended. |
| PHL 104 | Ethics (MOTR PHIL 102) | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| XXX xxx | MOTR Humanities & Fine Arts (p. 416) | | | |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| ENG 102 | College Composition II (MOTR ENGL 200) | 3 | ENG 101 with a minimum grade of "C" and Reading Proficiency | This fulfills part of the written communications requirement. |
| PSY 200 | General Psychology (MOTR PSYC 100) | 3 | Reading Proficiency or concurrent enrollment in RDG 079 | This fulfills part of the social and behavioral science requirement. UMSL requires a C or better for the BSW program. |
| BIO 111 | Introductory Biology (MOTR BIOL 100L) | 4 | Reading Proficiency or concurrent enrollment in RDG 079 | This fulfills part of the natural science requirement and will fulfill the natural science with lab requirement. UMSL requires a C or better for the BSW program. |
| HMS 100 | Introduction to Human Services [1] | 3 | Reading Proficiency | This fulfills part of the elective requirement. See footnote below for additional information. |
| XXX xxx | MOTR Humanities & Fine Arts (p. 416) | 3 | | Foreign Language is recommended. |
| | **Credit Hours** | **16** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| BIO 109 | Human Biology (MOTR LIFS 100) | 3 | Reading Proficiency or concurrent enrollment in RDG 079 | This fulfills part of the natural science requirement. UMSL requires a C or better for the BSW program. |
| HMS 101 | Human Services: Theories and Skills [1] | 3 | Reading Proficiency | This fulfills part of the elective requirement. See footnote below for additional information. |
| PSY 206 | Introduction to Social Psychology | 3 | PSY 200 with a minimum grade of "C" and Reading Proficiency | This fulfills part of the elective requirement. UMSL requires a C or better for the BSW program. |
| XXX xxx | Elective | 3 | | See recommended elective listed below. |
| PSC 101 | Introduction to American Politics (MOTR POSC 101) | 3 | Reading Proficiency or concurrent enrollment in RDG 079 | This fulfills the civics requirement. UMSL requires a C or better for the BSW program. |
| MCE 100 | Missouri Civics Examination | 0 | | |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| HMS 102 | Human Services: Policy and Politics [1] | 3 | Reading Proficiency | This fulfills part of the elective requirement. See footnote below for additional information. |
| PSY 205 | Human Growth and Development (MOTR PSYC 200) | 3 | PSY 200 with a minimum grade of "C" and Reading Proficiency | This fulfills part of the CORE 42 elective. |
| ECO 140 | Introduction to Economics (MOTR ECON 100) | 3 | Concurrent enrollment in MTH 140S, or placement into MTH 140, MTH 160, or MTH 185, and Reading Proficiency | This fulfills part of the CORE 42 elective. UMSL requires a C or better for the BSW program. |

| | | | | |
|---|---|---|---|---|
| Choose one of the following: | | 3 | | This fulfills part of the humanities requirement. |
| PHL 103 | World Religions (MOTR RELG 100) | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| ENG 231 | World Literature (MOTR LITR 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| XXX xxx | Elective | 3 | | See elective options listed below. |
| | **Credit Hours** | **15** | | |
| | **Total Credit Hours** | **61** | | |

[1] HMS 100, HMS 101, and HMS 102 must be completed with a C or higher. If all three courses are not completed, they may not transfer in as the program requirements for Social Work at UMSL.

## Recommended Electives

| Code | Title | Credit Hours |
|---|---|---|
| CRJ 101 | American Correctional System (highly recommended) | 3 |
| CRJ 122 | Introduction to Criminal Justice (MOTR CRJS 101) | 3 |
| PSY 208 | Abnormal Psychology (highly recommended) | 3 |
| SOC 203 | Introduction to Criminology (MOTR CRIM 205) | 3 |

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Accelerated IT Academy - Programming and Coding: CS

**Certificate of Specialization | 18 credit hours minimum**

**School of Business and Computer Information Technology**

**Program Website (https://stlcc.edu/programs-academics/pathways/s-t-e-m/accelerated-it-academy-programming/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

## Program Description:

The Accelerated IT Academy—Programming and Coding Certificate of Specialization provides a pathway for entry level Software Programming and Coding jobs. This program simulates real world experiences using C#, Java, database management, hands-on projects, critical thinking skills, and debugging and testing exercises. Additionally, in this program students will build a portfolio of evidence demonstrating skill mastery. Graduates will be qualified for employment in support and junior developers positions in the software developer settings or IT related field. The five courses in this program are transferable to the Software Developer Associate in Applied Science program.

**Locations.** This program is offered in its entirety at Florissant Valley.

**Related Programs.** The Computer and Information Technology Department offers an associate in the following area:

- **Software Developer, Associate in Applied Science (p. 387)**

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program “St. Louis Community College” and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. design programs that meet secure coding standards.
2. write professional and quality code.
3. design database management systems that comply with current industry standards.
4. demonstrate critical thinking skills in programming and database management.

# Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Program Requirements** | | |
| IS 166 | C# and Java Programming I | 4 |
| IS 168 | GitHub for Developers | 1 |
| IS 229 | Unix/Linux I | 3 |
| IS 253 | C# Programming II | 4 |
| or IS 287 | Java Programming II | |
| IS 291 | Workplace Learning: Computer and Information Technology | 3 |
| **Electives: (Choose One)** | | |
| IS 288 | Java Programming III | 3-4 |
| or IS 283 | C# Programming III | |
| or IS 225 | Database Management | |
| or IS 237 | Fundamentals of Information Assurance/Security - CompTIA Security+ | |
| or IS 139 | Web Publishing | |
| **Total Credit Hours** | | **18-19** |

# Full-Time Academic Plan

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| IS 166 | C# and Java Programming I | 4 | Reading Proficiency | Gateway Course, Critical Course, First 8-week |
| IS 168 | GitHub for Developers | 1 | Reading Proficiency | First 8-week |
| IS 229 | Unix/Linux I | 3 | Reading Proficiency | First 8-week |
| Choose one of the following: | | 4 | | Second 8-week |
| IS 253 | C# Programming II | | IS 153 or IS 167 or IS 187 or IS 166 with minimum grades of "C" and Reading Proficiency | |
| IS 287 | Java Programming II | | IS 153 or IS 167 or IS 187 or IS 256 or IS 166 with minimum grades of "C" and Reading Proficiency | |
| IS 291 | Workplace Learning: Computer and Information Technology | 3 | Enrollment in an IS program, department approval, and Reading Proficiency | 16-week with work component |

| | | | | |
|---|---|---|---|---|
| Choose one of the following: | | 3-4 | | Second 8-week |
| IS 283 | C# Programming III [1] | | IS 253 with a minimum grade of "C" and Reading Proficiency | |
| IS 288 | Java Programming III [1] | | IS 287 with a minimum grade of "C" and Reading Proficiency | |
| IS 225 | Database Management | | Reading Proficiency | |
| IS 237 | Fundamentals of Information Assurance/Security - CompTIA Security + | | IT 102 or IS 229 with a minimum grade of "C" and Reading Proficiency | |
| IS 139 | Web Publishing | | Reading Proficiency | |
| | **Credit Hours** | **18-19** | | |
| | **Total Credit Hours** | **18-19** | | |

[1] To finish in one semester, you cannot select IS 283 or IS 288 due to prerequisites.

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Part-Time Academic Plan

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| IS 166 | C# and Java Programming I | 4 | Reading Proficiency | Gateway Course, Critical Course, First 8-week course |
| IS 168 | GitHub for Developers | 1 | Reading Proficiency | First 8-week |
| Choose one of the following: | | 4 | | Second 8-week |
| IS 253 | C# Programming II | | IS 153 or IS 167 or IS 187 or IS 166 with minimum grades of "C" and Reading Proficiency | |
| IS 287 | Java Programming II | | IS 153 or IS 167 or IS 187 or IS 256 or IS 166 with minimum grades of "C" and Reading Proficiency | |
| | **Credit Hours** | **9** | | |
| **Spring** | | | | |
| IS 229 | Unix/Linux I | 3 | Reading Proficiency | 16-week |
| IS 291 | Workplace Learning: Computer and Information Technology | 3 | Enrollment in an IS program, department approval, and Reading Proficiency | 16-week with work component |

| | | | | |
|---|---|---|---|---|
| Choose one of the following: | | 3-4 | | Multiple modalities and term durations |
| IS 283 | C# Programming III | | IS 253 with a minimum grade of "C" and Reading Proficiency | |
| IS 288 | Java Programming III | | IS 287 with a minimum grade of "C" and Reading Proficiency | |
| IS 225 | Database Management | | Reading Proficiency | |
| IS 237 | Fundamentals of Information Assurance/Security - CompTIA Security + | | IT 102 or IS 229 with a minimum grade of "C" and Reading Proficiency | |
| IS 139 | Web Publishing | | Reading Proficiency | |
| | **Credit Hours** | **9-10** | | |
| | **Total Credit Hours** | **18-19** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Accounting: AAS

**Associate in Applied Science | 66 credit hours minimum**

**School of Business and Computer Information Technology**

**Program Website (https://stlcc.edu/programs-academics/pathways/b-m-c-a-h/accounting/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

The Associate of Applied Science in Accounting degree is designed to provide students with the skills and knowledge that are necessary to obtain entry-level employment into the accounting job market. The AAS degree is tailored to provide students with a comprehensive foundation in accounting and hands-on experience with computers using commercial accounting software.

Persons planning a career in accounting should have a proficiency in mathematics and be able to analyze, compare and interpret facts and figures quickly. Accuracy and the ability to handle responsibility with limited supervision are important. Courses in computer applications and work experience in the business area are extremely beneficial.

**Locations.** This program is offered in its entirety at Meramec. Students may be able to complete the program at Florissant Valley and Forest Park by taking a mixture of face-to-face and online courses.

**Related Programs.** The Accounting Department offers certificates in the following areas:

- **Accounting, Certificate of Proficiency (p. 67)**
- **Computer Accounting Technology, Certificate of Specialization (p. 149)**

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program “St. Louis Community College” and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. utilize the basic accounting terminology and the accounting cycle.
2. classify business transactions using basic accounting concepts (manually and with the use of computer technology).
3. record business transactions using basic accounting concepts (manually and with the use of computer technology).
4. compute business transactions using basic accounting concepts (manually and with the use of computer technology).
5. verify business transactions using basic accounting concepts (manually and with the use of computer technology).
6. prepare the four basic financial statements according to GAAP (Income Statement, Equity Statement, Balance Sheet, and Cash Flows.
7. create professional documents about the financial condition of a business entity.
8. make financial decisions about the four basic financial statements.
9. communicate orally useful information about the financial condition of a business entity.
10. interpret financial information while working in teams consisting of individuals with diverse backgrounds.
11. identify the various uses of technology as it applies to the Accounting field.
12. demonstrate technical proficiency for an entry-level junior accountant with the use of Quickbooks software and Microsoft Excel.
13. identify the different types of ethical issues that are encountered in a business environment.
14. apply the Accounting code of ethical conduct that relates to business organizations.
15. apply high ethical standards as it relates to contacts with fellow students, instructors, and employers.
16. apply the basic principles of law with our judicial system while addressing legal dilemmas. This includes legal ethics, constitutional law, contracts, torts, intellectual property, and business crime.
17. write responses addressing a legal dilemma using the various sources of law.
18. distinguish between the legal and ethical responses to a business dilemma.
19. apply statistical techniques with predicting costs of a business entity.

# Program of Study

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

| Code | Title | Credit Hours |
|---|---|---|
| **General Education** | | |
| ENG 100 | | 3 |
| or ENG 101 | College Composition I (MOTR ENGL 100) | |
| ENG 103 | Report Writing (MOTR ENGL 110) | 3 |
| or ENG 102 | College Composition II (MOTR ENGL 200) | |
| ECO 151 | Principles of Macroeconomics (MOTR ECON 101) | 3 |
| ECO 152 | Principles of Microeconomics (MOTR ECON 102) | 3 |
| MTH xxx | Mathematics (140 level or higher) | 3 |
| BUS 103 | Business Mathematics | 3 |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 |
| XXX xxx | Health and Wellness Elective (p. 479) | 2 |
| **Program Requirements** | | |
| ACC 100 | Applied Accounting | 3 |
| ACC 110 | Financial Accounting | 4 |
| ACC 114 | Managerial Accounting | 3 |
| ACC 208 | Intermediate Accounting I | 3 |
| ACC 213 | Survey of Business Taxes | 3 |
| BLW 101 | Business Law | 3 |
| BUS 104 | Introduction to Business Administration | 3 |

| | | |
|---|---|---|
| **Technology Core Courses** | | |
| ACC 120 | Computer Accounting Applications for Business | 3 |
| ACC 122 | Computer Accounting Applications - Spreadsheets | 3 |
| ACC 124 | Computer Accounting Applications - Databases | 3 |
| **Area of Concentration** | | |
| Select one of the following tracks: | | 6 |
| Accounting Associate Track | | |
| ACC 203 | Cost Accounting | |
| ACC 206 | Auditing | |
| ACC 209 | Intermediate Accounting II | |
| ACC 211 | Current Topics in Accounting | |
| ACC 212 | Government and Nonprofit Accounting | |
| ACC 215 | Fraud and Forensic Accounting | |
| ACC 291 | Workplace Learning I | |
| ACC 293 | Workplace Learning II | |
| Tax Emphasis Track | | |
| ACC 204 | Income Tax Accounting | |
| ACC 214 | Business Taxes: Research and Planning | |
| ACC 292 | Workplace Learning VITA (Volunteer Income Tax Assistance) | |
| **Business Electives** | | |
| Select two of the following: | | 6 |
| ACC xxx | | |
| IS 116 or IS 151 | | |
| MGT xxx or MKT xxx | | |
| FIN xxx | | |
| BUS 201 | Elementary Business Statistics | |
| **Total Credit Hours** | | **66** |

# Full-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| ENG 101<br>or 100 | College Composition I (MOTR ENGL 100)<br>or | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| MTH 140 | Intermediate Algebra (or higher) | 3 | Satisfactory placement and Reading Proficiency | MTH 140S, MTH 160S, MTH 161S, and MTH 180S will fulfill this requirement but only 3 credit hours will count toward the degree. |
| ECO 151 | Principles of Macroeconomics (MOTR ECON 101) | 3 | Concurrent enrollment in MTH 140S, or placement into MTH 140, MTH 160 or MTH 185, and Reading Proficiency | |
| BUS 104 | Introduction to Business Administration | 3 | Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| ACC 100 | Applied Accounting | 3 | Reading Proficiency or concurrent enrollment in RDG 079 | Exploratory Course, Gateway Course |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| ENG 102<br>or 103 | College Composition II (MOTR ENGL 200)<br>or Report Writing (MOTR ENGL 110) | 3 | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| ECO 152 | Principles of Microeconomics (MOTR ECON 102) | 3 | Concurrent enrollment in MTH 140S, or placement into MTH 140, MTH 160, or MTH 185, and Reading Proficiency | |
| ACC 110 | Financial Accounting | 4 | ACC 100 with a minimum grade of "C" or a high school accounting course or department approval, and Reading Proficiency | Critical Course |
| BLW 101 | Business Law | 3 | Reading Proficiency | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | |
| | **Credit Hours** | **16** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| BUS 103 | Business Mathematics | 3 | Reading Proficiency | |
| ACC 114 | Managerial Accounting | 3 | ACC 110 with minimum grade of "C" and Reading Proficiency | |
| ACC 120 | Computer Accounting Applications for Business | 3 | ACC 100 with a minimum grade of "C" and/or ACC 110 with a minimum grade of "C" and/or department approval and Reading Proficiency | |
| ACC 122 | Computer Accounting Applications - Spreadsheets | 3 | ACC 110 with a minimum grade of "C" and Reading Proficiency | |
| ACC 213 | Survey of Business Taxes | 3 | ACC 110 with a minimum grade of "C" or department approval and Reading Proficiency | |
| XXX xxx | Business Elective | 3 | | Choose from ACC, IS 116 or IS 151, MGT OR MKT, FIN, or BUS 201. |
| | **Credit Hours** | **18** | | |
| **Spring** | | | | |
| XXX xxx | Health and Wellness Elective (p. 479) | 2 | | |
| ACC 124 | Computer Accounting Applications - Databases | 3 | ACC 110 with a minimum grade of "C" or department approval and Reading Proficiency | Apply for graduation. |
| ACC 208 | Intermediate Accounting I | 3 | ACC 114 with a minimum grade of "C" or department approval and Reading Proficiency | |
| XXX xxx | Accounting Elective in the Area of Concentration | 3 | | See list below for elective options. |
| XXX xxx | Accounting Elective in the Area of Concentration | 3 | | See list below for elective options. |

| | | | | |
|---|---|---|---|---|
| XXX xxx | Business Elective | 3 | | Choose from ACC, IS 116 or IS 151, MGT OR MKT, FIN, or BUS 201. |
| | **Credit Hours** | **17** | | |
| | **Total Credit Hours** | **66** | | |

# Accounting Electives in the Area of Concentration

- 6 credit hours from one track

| Code | Title | Credit Hours |
|---|---|---|
| **Accounting Associate Track** | | |
| ACC 203 | Cost Accounting | 3 |
| ACC 206 | Auditing | 3 |
| ACC 209 | Intermediate Accounting II | 3 |
| ACC 211 | Current Topics in Accounting | 3 |
| ACC 212 | Nonprofit Accounting | 3 |
| ACC 215 | Fraud and Forensic Accounting | 3 |
| ACC 291 | Accounting Internship | 3 |
| ACC 293 | Accounting Internship III | 3 |
| **Tax Emphasis Track** | | |
| ACC 204 | Income Tax Accounting | 3 |
| ACC 214 | Business Taxes: Research and Planning | 3 |
| ACC 292 | Accounting Internship II | 3 |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Articulation Agreements

Articulation agreements are formal partnerships between St. Louis Community College and colleges or universities that outline how completed coursework transfers toward a specific degree program. These agreements help students continue their education by ensuring the credits earned at STLCC apply toward bachelor's degree requirements at the partner institution. STLCC continually collaborates with colleges and universities to establish new agreements that support a smooth transfer process.

Below is a list of current partner institutions with active articulation agreements for the Associate in Applied Science - Accounting. If a program does not have a linked plan available, students should meet with an academic advisor to obtain the appropriate plan and guidance.

## Lindenwood University

- Business Administration with an Emphasis in Accounting, Bachelor of Arts

## Maryville University

- Accounting, Bachelor of Science
- Accounting Information Systems, Bachelor of Science
- Business Administration, Bachelor of Science

# Accounting: CP

**Certificate of Proficiency | 37 credit hours minimum**

**School of Business and Computer Information Technology**

**Program Website (https://stlcc.edu/programs-academics/pathways/b-m-c-a-h/accounting/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

## Program Description:

The Accounting Certificate of Proficiency degree program is designed to provide students with the knowledge and skills to meet the changing needs required in today's job market. The accountant's role has changed dramatically with the dominant role of computers and the Certificate of Proficiency degree provides a strong foundation with commercial computer applications in Accounting. The Certificate of Proficiency also provides currently employed persons the opportunity to acquire an extensive accounting background and the necessary skills and proficiencies to attain employment in the accounting field.

**Locations.** This program is offered in its entirety at Meramec. Students may be able to complete the program at Florissant Valley and Forest Park by taking a mixture of face-to-face and online courses.

**Related Programs.** The Accounting Department offers an associate and a certificate in the following areas:

- **Accounting, Associate in Applied Science (p. 62)**
- **Computer Accounting Technology, Certificate of Specialization (p. 149)**

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

## At the completion of the program, students are expected to:

1. utilize the basic accounting terminology and the accounting cycle.
2. classify business transactions using basic accounting concepts (manually and with the use of computer technology).
3. record business transactions using basic accounting concepts (manually and with the use of computer technology).
4. compute business transactions using basic accounting concepts (manually and with the use of computer technology).
5. verify business transactions using basic accounting concepts (manually and with the use of computer technology).
6. prepare the four basic financial statements according to GAAP (Income Statement, Equity Statement, Balance Sheet, and Cash Flows Statement).
7. create professional documents about the financial condition of a business entity.
8. make financial decisions about the four basic financial statements.
9. communicate orally useful information about the financial condition of a business entity.
10. interpret financial information while working in teams consisting of individuals with diverse backgrounds.
11. identify the various uses of technology as it applies to the Accounting field.
12. demonstrate technical proficiency for an entry-level junior accountant with the use of Quickbooks software and Microsoft Excel.
13. identify the different types of ethical issues that are encountered in a business environment.
14. apply the Accounting code of ethical conduct that relates to business organizations.
15. apply high ethical standards as it relates to contacts with fellow students, instructors, and employers.
16. apply the basic principles of law with our judicial system while addressing legal dilemmas. This includes legal ethics, constitutional law, contracts, torts, intellectual property, and business crime.
17. write responses addressing a legal dilemma using the various sources of law.
18. distinguish between the legal and ethical responses to a business dilemma.

Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Program Requirements** | | |
| BUS 103 | Business Mathematics | 3 |
| ACC 100 | Applied Accounting | 3 |
| ACC 110 | Financial Accounting | 4 |
| ACC 114 | Managerial Accounting | 3 |
| ACC 208 | Intermediate Accounting I | 3 |
| ACC 213 | Survey of Business Taxes | 3 |
| BLW 101 | Business Law | 3 |
| ACC 120 | Computer Accounting Applications for Business | 3 |
| ACC 122 | Computer Accounting Applications - Spreadsheets | 3 |
| ACC 124 | Computer Accounting Applications - Databases | 3 |
| XXX xxx | Accounting Elective (p. 427) | 3 |
| **Business Electives** | | |
| Select one of the following: | | 3 |
| ACC xxx | | |
| IS 116 or IS 151 | | |
| BUS xxx | | |
| FIN xxx | | |
| **Total Credit Hours** | | **37** |

# Academic Plan

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| ACC 100 | Applied Accounting | 3 | Reading Proficiency or concurrent enrollment in RDG 079 | Exploratory Course, Gateway Course |
| BUS 103 | Business Mathematics | 3 | Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| **Spring** | | | | |
| ACC 110 | Financial Accounting | 4 | ACC 100 with a minimum grade of "C" or a high school accounting course or department approval, and Reading Proficiency | Critical Course |
| BLW 101 | Business Law | 3 | Reading Proficiency | |
| | **Credit Hours** | **7** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| ACC 114 | Managerial Accounting | 3 | ACC 110 with minimum grade of "C" and Reading Proficiency | |
| ACC 120 | Computer Accounting Applications for Business | 3 | ACC 100 with a minimum grade of "C" and/or ACC 110 with a minimum grade of "C" and/or department approval and Reading Proficiency | |
| ACC 122 | Computer Accounting Applications - Spreadsheets | 3 | ACC 110 with a minimum grade of "C" and Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| ACC 124 | Computer Accounting Applications - Databases | 3 | ACC 110 with a minimum grade of "C" or department approval and Reading Proficiency | |
| ACC 213 | Survey of Business Taxes | 3 | ACC 110 with a minimum grade of "C" or department approval and Reading Proficiency | |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| ACC 208 | Intermediate Accounting I | 3 | ACC 114 with a minimum grade of "C" or department approval and Reading Proficiency | Apply for graduation. |
| XXX xxx | Accounting Elective (p. 427) | 3 | | Select one course from ACC. |
| XXX xxx | Business Elective | 3 | | Select course from BUS, ACC, IS 116 or IS 151, or FIN. |
| | **Credit Hours** | **9** | | |
| | **Total Credit Hours** | **37** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Addictions Study: CS

**Certificate of Specialization | 27 credit hours minimum**

**School of Education, Public Service, and Social Sciences**

**Program Website (https://stlcc.edu/programs-academics/pathways/s-b-s-h-s-e/addictions-study/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

This program provides academic preparation for persons working or preparing to work in the field of addiction including alcohol and drug abuse treatment. It will look at commonalities of the various addiction and treatment modalities.

**Locations.** This program is offered in its entirety at Forest Park.

**Related Programs.** The Human Services Department offers an associate's degree in the following area:

- **Human Services, Associate in Applied Science (p. 279)**

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program “St. Louis Community College” and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. Recognize the commonalities and differences between the various addictions such as substance, gambling, sex, eating, shopping, and/or Internet abuses.
2. Understand the complexities involved in evaluating and treating persons suffering from addictions.
3. Apply treatment modalities used to help individuals with addictive behavior and assess their effectiveness.
4. Accurately document a client's evaluation and treatment of addiction.
5. Adhere to all appropriate ethical and legal guidelines.

# Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Program Requirements** | | |
| HMS 100 | Introduction to Human Services | 3 |
| HMS 101 | Human Services: Theories and Skills | 3 |
| HMS 205 | Crisis Intervention | 3 |
| HMS 111 | Group Practice in Human Services | 3 |
| HMS 201 | Workplace Learning I: Human Services | 3 |
| HMS 203 | Human Services Workplace Learning Seminar I | 3 |
| SOC 126 | The Spectrum of Drugs and Society | 3 |
| SOC 211 | Substance Use, Abuse, and Dependence | 3 |
| **Electives** | | |
| Select one of the following: | | 3 |
| PSY 200 | General Psychology (MOTR PSYC 100) | |
| PSY 205 | Human Growth and Development (MOTR PSYC 200) | |
| PSY 208 | Abnormal Psychology | |
| SOC 204 | Introduction to Family Studies (MOTR SOCI 204) | |
| **Total Credit Hours** | | **27** |

# Full-Time Academic Plan

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| SOC 211 | Substance Use, Abuse, and Dependence | 3 | Reading Proficiency | |
| HMS 100 | Introduction to Human Services | 3 | Reading Proficiency | Exploratory Course, Gateway Course, and Critical Course |
| Choose one of the following: | | 3 | | |
| PSY 200 | General Psychology (MOTR PSYC 100) | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| PSY 205 | Human Growth and Development (MOTR PSYC 200) | | PSY 200 with a minimum grade of "C" and Reading Proficiency | |
| PSY 208 | Abnormal Psychology | | PSY 200 with a minimum grade of "C" and Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| SOC 204 | Introduction to Family Studies (MOTR SOCI 204) | | Reading Proficiency | |
| HMS 101 | Human Services: Theories and Skills | 3 | Reading Proficiency | Gateway Course and Critical Course |
| | **Credit Hours** | **12** | | |
| **Spring** | | | | |
| HMS 201 | Workplace Learning I: Human Services | 3 | HMS 100 and HMS 101 with grades of "C" or better and Reading Proficiency | Practicum sites should be identified prior to the end of the previous semester. |
| HMS 203 | Human Services Workplace Learning Seminar I | 3 | HMS 100 and HMS 101 with grades of "C" or better and Reading Proficiency | |
| HMS 111 | Group Practice in Human Services | 3 | Reading Proficiency | Apply for graduation. |
| HMS 205 | Crisis Intervention | 3 | Reading Proficiency | |
| SOC 126 | The Spectrum of Drugs and Society | 3 | Reading Proficiency | |
| | **Credit Hours** | **15** | | |
| | **Total Credit Hours** | **27** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Part-Time Academic Plan

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| HMS 100 | Introduction to Human Services | 3 | Reading Proficiency | Exploratory Course, Gateway Course, and Critical Course |
| Choose one of the following: | | 3 | | |
| PSY 200 | General Psychology (MOTR PSYC 100) | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| PSY 205 | Human Growth and Development (MOTR PSYC 200) | | PSY 200 with a minimum grade of "C" and Reading Proficiency | |
| PSY 208 | Abnormal Psychology | | PSY 200 with a minimum grade of "C" and Reading Proficiency | |
| SOC 204 | Introduction to Family Studies (MOTR SOCI 204) | | Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| **Spring** | | | | |
| HMS 101 | Human Services: Theories and Skills | 3 | Reading Proficiency | Gateway Course and Critical Course |

| | | | | |
|---|---|---|---|---|
| HMS 205 | Crisis Intervention | 3 | Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| **Summer** | | | | |
| HMS 111 | Group Practice in Human Services | 3 | Reading Proficiency | |
| | **Credit Hours** | **3** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| SOC 211 | Substance Use, Abuse, and Dependence | 3 | Reading Proficiency | |
| SOC 126 | The Spectrum of Drugs and Society | 3 | Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| **Spring** | | | | |
| HMS 201 | Workplace Learning I: Human Services | 3 | HMS 100 and HMS 101 with grades of "C" or better and Reading Proficiency | Practicum sites should be identified prior to the end of the previous semester. |
| HMS 203 | Human Services Workplace Learning Seminar I | 3 | HMS 100 and HMS 101 with grades of "C" or better and Reading Proficiency | Apply for graduation. |
| | **Credit Hours** | **6** | | |
| | **Total Credit Hours** | **27** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Associate of Arts in Teaching: AAT

**Associate of Arts in Teaching | 62 credit hours minimum**

**School of Education, Public Service, and Social Sciences**

**Program Contact Email: teaching@stlcc.edu**

**Program Website (https://stlcc.edu/programs-academics/pathways/s-b-s-h-s-e/teaching/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

The Associate of Arts in Teaching degree program contains an area of concentration that includes four core Teacher Education courses and one education elective; it is consistent with other Missouri community colleges. This is an effort to promote a more seamless transfer to four-year colleges and universities. This degree program provides students with the first two years of study toward a bachelor's degree at a four-year college or university. It is governed and accredited by the state of Missouri. In addition, this degree program meets the Missouri Initial Professional Education Competencies (MIPEC) established for pre-service teachers in the state of Missouri.

Early in their coursework at St. Louis Community College, students should familiarize themselves with education programs at four-year schools and determine which program they plan to pursue after completion of the AAT. In addition, they should work closely with STLCC faculty, counselors, and advisors to enable them

to make a smooth transfer to the school of their choice. The maximum number of credit hours in teacher education which are allowed in transfer may vary among the transfer institutions. **Students are discouraged from self-advising**.

An Associate of Arts in Teaching (AAT) degree requires:

- a cumulative G.P.A. of 2.75

Students should also be aware that the cumulative GPA admission requirements at some four-year transfer institutions may exceed the minimum state requirements. Students will be required to pass a criminal background check and a child abuse check to participate in school observation experiences. Any individual who has been convicted of a felony may not be licensed to teach in the state of Missouri. Students considering this degree should have college level reading as demonstrated on the college placement test or should have completed developmental reading and/or writing coursework prior to entering the Teacher Education core courses. Students are expected to have college level oral and written proficiencies and display clear, correct and effective writing and speaking skills.

**Locations.** This program is offered at Florissant Valley, Forest Park, Meramec, and Wildwood and can be completed with a mixture of face-to-face and online courses.

**Accreditation.** This program is fully accredited by the Missouri Department of Elementary and Secondary Education.

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. identify the central concepts, structures, and tools of inquiry of the discipline(s).
2. create learning experiences that make aspects of subject matter meaningful and engaging for learners.
3. explain how students learn, develop, and differ in their approaches to learning.
4. identify how teachers use long-range planning to develop, implement, and evaluate curriculum based upon student data, as well as district and state standards.
5. design learning opportunities that are adapted to diverse learners and support the intellectual, social, and personal development of all learners.
6. describe a variety of instructional strategies and resources to encourage k-12 students' critical thinking, problem solving, and performance skills.
7. describe individual/group motivation and behavior to create a learning environment that encourages active engagement in learning, positive social interaction, and self-motivation.
8. model effective verbal, nonverbal, and media communication techniques to foster active inquiry, collaboration, and supportive interaction in classroom settings.
9. describe how assessment data (formative, summative, classroom, and standardized) is used to plan ongoing instruction.
10. articulate the importance of reflective practice and continual professional growth.
11. identify strategies for fostering appropriate relationships with peers and school personnel.

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **General Education** | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 |
| ENG 102 | College Composition II (MOTR ENGL 200) | 3 |
| MTH 161 | Quantitative Reasoning (MOTR MATH 120) (or higher) [1] | 3 |
| or MTH 160 | Precalculus Algebra (MOTR MATH 130) | |
| COM 101 | Oral Communication I (MOTR COMM 100) | 3 |

| | | |
|---|---|---|
| or COM 107 | Public Speaking (MOTR COMM 110) | |
| PSC 101 | Introduction to American Politics (MOTR POSC 101) | 3 |
| HST 101 | United States History to 1865 (MOTR HIST 101) [2] | 3 |
| or HST 102 | United States History from 1865 to the Present (MOTR HIST 102) | |
| PSY 200 | General Psychology (MOTR PSYC 100) | 3 |
| XXX xxx | Humanities and Fine Arts Elective with MOTR designation (p. 416) [3] | 9 |
| **Select one of the following tracks:** | | **12** |
| **Elementary Education Track** | | |
| XXX xxx | Natural Sciences CORE 42 course with laboratory (p. 416) | |
| XXX xxx | Natural Sciences CORE 42 course with laboratory (p. 416) | |
| XXX xxx | CORE 42 Elective (any course to reach 42 MOTR credits) (p. 416) | |
| **Secondary Education Track** | | |
| XXX xxx | Natural Sciences CORE 42 course (p. 416) | |
| XXX xxx | Natural Sciences CORE 42 course with laboratory (p. 416) | |
| XXX xxx | CORE 42 Elective (any course to reach 42 MOTR credits) (p. 416) | |
| **Program Requirements** | | |
| EDU 210 | Teaching Profession with Field Experience | 3 |
| EDU 211 | Foundations of Education | 3 |
| EDU 218 | Educational Technology | 3 |
| EDU 227 | Educational Psychology | 3 |
| PSY 205 | Human Growth and Development (MOTR PSYC 200) | 3 |
| or PSY 203 | Child Psychology | |
| or PSY 214 | Adolescent Psychology | |
| **Education Electives (One of the following must be completed):** | | **3** |
| EDU 219 | Education of Exceptional Learners | |
| EDU 228 | Multicultural Education | |
| XXX xxx | Elective [4] | 2-3 |
| **Total Credit Hours** | | **62-63** |

1 Pre-calculus Algebra is recommended for students planning to enter a middle or high school STEM area. MTH 160S or MTH 161S will also fulfill this requirement, but only 3 credits will apply toward the degree.

2 Courses (HST 101 and HST 102) meet Missouri State Requirement

3 Non-studio art or music class recommended for Elementary Certification

4 Electives may be selected from education electives, content areas or any other courses. They should be carefully selected with the help of an advisor to meet degree requirements, prerequisites, preparation for the MoGEA, and planned level and area of teacher preparation.
Students seeking elementary certification can choose to complete an approved economics course, an approved geography course or additional education courses.
Students seeking secondary certification should select courses required for their specific area of certification in coordination with their transfer institution.

# Full-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | Discuss academic plan and elective choices with an academic advisor. |
| Choose one of the following: | | 3 | | MTH 160S or MTH 161S will also fulfill this requirement, but only 3 credits will apply toward the degree. |
| MTH 161 | Quantitative Reasoning (MOTR MATH 120) | | Satisfactory score on placement test and Reading Proficiency | |
| MTH 160 | Precalculus Algebra (MOTR MATH 130) (or higher) | | MTH 140 (or MTH 140S) with a minimum grade of "C" or satisfactory score on placement test, and Reading Proficiency | MTH 160 is recommended for students planning to enter a middle or high school STEM area. |
| Choose one of the following: | | 3 | | |
| COM 101 | Oral Communication I (MOTR COMM 100) | | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | |
| COM 107 | Public Speaking (MOTR COMM 110) | | Reading Proficiency | |
| PSC 101 | Introduction to American Politics (MOTR POSC 101) | 3 | Reading Proficiency or concurrent enrollment in RDG 079 | |
| XXX xxx | Humanities and Fine Arts Elective with MOTR designation (p. 416) | 3 | | Non-studio art or music class recommended for Elementary Certification. |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| ENG 102 | College Composition II (MOTR ENGL 200) | 3 | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| PSY 200 | General Psychology (MOTR PSYC 100) | 3 | Reading Proficiency or concurrent enrollment in RDG 079 | |
| Choose one of the following: | | 3 | | |
| HST 101 | United States History to 1865 (MOTR HIST 101) | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| HST 102 | United States History from 1865 to the Present (MOTR HIST 102) | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| EDU 218 | Educational Technology | 3 | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| XXX xxx | Natural Sciences Elective with MOTR designation (p. 416) | 4 | | One lab course required for Secondary certification; two lab courses required for Elementary certification. |
| | **Credit Hours** | **16** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| Choose one of the following: | | 3 | | |
| PSY 205 | Human Growth and Development (MOTR PSYC 200) | | PSY 200 with a minimum grade of "C" and Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| PSY 203 | Child Psychology | | PSY 200 with a minimum grade of "C" and Reading Proficiency | |
| PSY 214 | Adolescent Psychology | | PSY 200 with a minimum grade of "C" and Reading Proficiency | |
| EDU 211 | Foundations of Education | 3 | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| EDU 210 | Teaching Profession with Field Experience | 3 | ENG 101 with a minimum grade of "C" and Reading Proficiency | 36 hours of classroom observation are required. |
| XXX xxx | Humanities and Fine Arts Elective with MOTR designation (p. 416) | 3 | | |
| XXX xxx | CORE 42 Elective (p. 416) | 5 | | Any course to reach 42 MOTR credits |
| | **Credit Hours** | **17** | | |
| **Spring** | | | | |
| EDU 227 | Educational Psychology | 3 | EDU 210 and PSY 203, PSY 205 or PSY 214 with minimum grades of a "C" and Reading Proficiency | Apply for graduation. |
| Choose one of the following: | | 3 | | |
| EDU 219 | Education of Exceptional Learners | | EDU 211 with a minimum grade of "C" and Reading Proficiency | |
| EDU 228 | Multicultural Education | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| XXX xxx | Natural Sciences Elective with MOTR designation (p. 416) | 3 | | One lab course is required for Secondary certification; two lab courses are required for Elementary certification. |
| XXX xxx | Humanities and Fine Arts Elective with MOTR designation (p. 416) | 3 | | |
| XXX xxx | Elective | 2-3 | | Discuss elective choices with academic advisor. |
| | **Credit Hours** | **14-15** | | |
| | **Total Credit Hours** | **62-63** | | |

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Part-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | Discuss academic plan and elective choices with an academic advisor. |
| Choose one of the following: | | 3 | | MTH 160 is recommended for students planning to enter a middle or high school STEM area. MTH 160S or MTH 161S will also fulfill this requirement, but only 3 credits will apply toward the degree. |
| MTH 161 | Quantitative Reasoning (MOTR MATH 120) | | Satisfactory score on placement test and Reading Proficiency | |
| MTH 160 | Precalculus Algebra (MOTR MATH 130) (or higher) | | MTH 140 (or MTH 140S) with a minimum grade of "C" or satisfactory score on placement test, and Reading Proficiency | |
| XXX xxx | Humanities and Fine Arts Elective with MOTR designation (p. 416) | 3 | | Non-studio art or music class recommended for Elementary Certification. This can be taken in the summer if desired. |
| | **Credit Hours** | **9** | | |
| **Spring** | | | | |
| Choose one of the following: | | 3 | | |
| COM 101 | Oral Communication I (MOTR COMM 100) | | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | |
| COM 107 | Public Speaking (MOTR COMM 110) | | Reading Proficiency | |
| PSC 101 | Introduction to American Politics (MOTR POSC 101) | 3 | Reading Proficiency or concurrent enrollment in RDG 079 | |
| | **Credit Hours** | **6** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| ENG 102 | College Composition II (MOTR ENGL 200) | 3 | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| EDU 210 | Teaching Profession with Field Experience | 3 | ENG 101 with a minimum grade of "C" and Reading Proficiency | 36 hours of classroom observation are required. |
| PSY 200 | General Psychology (MOTR PSYC 100) | 3 | Reading Proficiency or concurrent enrollment in RDG 079 | |
| | **Credit Hours** | **9** | | |
| **Spring** | | | | |
| Choose one of the following: | | 3 | | Discuss academic plan and elective choices with an academic advisor. |
| HST 101 | United States History to 1865 (MOTR HIST 101) | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| HST 102 | United States History from 1865 to the Present (MOTR HIST 102) | | Reading Proficiency or concurrent enrollment in RDG 079 | |

| | | | | |
|---|---|---|---|---|
| EDU 218 | Educational Technology | 3 | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| XXX xxx | Natural Science Elective with MOTR designation (p. 416) | 4 | | One lab course is required for Secondary certification; two lab courses are required for Elementary certification. This can be taken in the summer if desired. |
| | **Credit Hours** | **10** | | |
| **Third Year** | | | | |
| **Fall** | | | | |
| Choose one of the following: | | 3 | | |
| PSY 203 | Child Psychology | | PSY 200 with a minimum grade of "C" and Reading Proficiency | |
| PSY 205 | Human Growth and Development (MOTR PSYC 200) | | PSY 200 with a minimum grade of "C" and Reading Proficiency | |
| PSY 214 | Adolescent Psychology | | PSY 200 with a minimum grade of "C" and Reading Proficiency | |
| EDU 211 | Foundations of Education | 3 | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| XXX xxx | Humanities and Fine Arts Elective with MOTR designation (p. 416) | 3 | | |
| | **Credit Hours** | **9** | | |
| **Spring** | | | | |
| EDU 227 | Educational Psychology | 3 | EDU 210 and PSY 203, PSY 205 or PSY 214 with minimum grades of a "C" and Reading Proficiency | Discuss academic plan and elective choices with an academic advisor. |
| XXX xxx | Natural Science Elective with MOTR designation (p. 416) | 3 | | |
| | **Credit Hours** | **6** | | |
| **Fourth Year** | | | | |
| **Fall** | | | | |
| Choose one of the following: | | 3 | | |
| EDU 219 | Education of Exceptional Learners | | EDU 211 with a minimum grade of "C" and Reading Proficiency | |
| EDU 228 | Multicultural Education | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| XXX xxx | CORE 42 Elective (p. 416) | 5 | | Any course to reach 42 MOTR credits |
| | **Credit Hours** | **8** | | |
| **Spring** | | | | |
| XXX xxx | Humanities and Fine Arts Elective with MOTR designation (p. 416) | 3 | | Apply for graduation. |
| XXX xxx | Elective | 2-3 | | Discuss elective choices with academic advisor. |
| | **Credit Hours** | **5-6** | | |
| | **Total Credit Hours** | **62-63** | | |

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Articulation Agreements

Articulation agreements are formal partnerships between St. Louis Community College and colleges or universities that outline how completed coursework transfers toward a specific degree program. These agreements help students continue their education by ensuring the credits earned at STLCC apply toward bachelor's degree requirements at the partner institution. STLCC continually collaborates with colleges and universities to establish new agreements that support a smooth transfer process.

Below is a list of current partner institutions with active articulation agreements for the Associate of Arts in Teaching. If a program does not have a linked plan available, students should meet with an academic advisor to obtain the appropriate plan and guidance.

## Harris-Stowe State University

- Elementary Teacher Education, Bachelor of Science

## University of Missouri - Columbia

- Elementary Education, Bachelor of Science

## University of Missouri - St. Louis

- Education, Bachelor of Science
  - Elementary Education Focus
  - Special Education Focus
  - Secondary Education Focus

# Automotive Service: CS

**Certificate of Specialization | 15 credit hours minimum**

**School of Advanced Manufacturing, Transportation, and Hospitality Studies**

**Program Website (https://stlcc.edu/programs-academics/pathways/a-m-i-o-t/automotive-technology/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

The Automotive Service Certificate of Specialization covers the essential skills needed to perform typical services in the Automotive Service Excellence (ASE) areas of brakes, electrical, engine mechanical, and engine performance. This program will prepare students for entry-level employment based on the four topics from each of the four courses. These courses will focus on testing, diagnosing, and servicing of the following:

- Electrical: Starting and charging systems, batteries, and electrical circuits
- Brakes: Disc, drum, hydraulic, and electronic brake systems
- Engine mechanical: Complete evaluation of an engine including the disassembly, inspection, and re-assembly
- Powertrain: Identification of engine management sensors, interpreting scan tool data, and servicing fuel systems

**Locations.** This program is offered in its entirety at Forest Park.

**Related Programs.** The Automotive Technology Department offers an associate and certificates in the following areas:

- **Automotive Technology, Associate in Applied Science (p. 82)**
- **Automotive Technology, Certificate of Proficiency (p. 85)**
- **Automotive Vehicle Inspection and Light Maintenance, Certificate of Specialization (p. 88)**

**Financial Aid.** This Certificate of Specialization is not eligible for financial aid.

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. diagnose engine mechanical-related customer concerns.
2. service a hydraulically controlled disc/drum brake system.
3. diagnose electronic brake control system failures.
4. measure internal engine components for excessive clearance and wear.
5. assess the condition of an internal engine using common testing procedures.
6. test the fuel delivery of an automobile.
7. diagnose customer concerns related to engine performance.

# Program of Study

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

| Code | Title | Credit Hours |
|---|---|---|
| **Program Requirements** | | |
| AUT 101 | Automotive Fundamentals and Service Information | 3 |
| AUT 110 | Automotive Electrical Principles | 3 |
| AUT 112 | Automotive Brake Systems Service and Diagnosis | 3 |
| AUT 114 | Automotive Engine Repair and Diagnosis | 3 |
| AUT 116 | Automotive Powertrain Controls | 3 |
| **Total Credit Hours** | | **15** |

# Full-Time Academic Plan (Day Program)

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| AUT 101 | Automotive Fundamentals and Service Information | 3 | Reading Proficiency | Exploratory Course, Gateway Course, Critical Course |
| AUT 110 | Automotive Electrical Principles | 3 | Concurrent or prior enrollment in AUT 101 with a minimum grade of "C" and Reading Proficiency | |
| AUT 112 | Automotive Brake Systems Service and Diagnosis | 3 | Concurrent or prior enrollment in AUT 101 with a minimum grade of "C" and Reading Proficiency | |
| AUT 114 | Automotive Engine Repair and Diagnosis | 3 | Concurrent or prior enrollment in AUT 101 with a minimum grade of "C" and Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| AUT 116 | Automotive Powertrain Controls | 3 | Concurrent or prior enrollment in AUT 101 with a minimum grade of "C" and Reading Proficiency | Apply for graduation. |
| | **Credit Hours** | **15** | | |
| | **Total Credit Hours** | **15** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Part-Time Academic Plan (Evening Program)

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| AUT 101 | Automotive Fundamentals and Service Information | 3 | Reading Proficiency | Exploratory Course, Gateway Course, Critical Course |
| AUT 110 | Automotive Electrical Principles | 3 | Concurrent or prior enrollment in AUT 101 with a minimum grade of "C" and Reading Proficiency | |
| AUT 112 | Automotive Brake Systems Service and Diagnosis | 3 | Concurrent or prior enrollment in AUT 101 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **9** | | |
| **Spring** | | | | |
| AUT 114 | Automotive Engine Repair and Diagnosis | 3 | Concurrent or prior enrollment in AUT 101 with a minimum grade of "C" and Reading Proficiency | Apply for graduation. |
| AUT 116 | Automotive Powertrain Controls | 3 | Concurrent or prior enrollment in AUT 101 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| | **Total Credit Hours** | **15** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Automotive Technology: AAS

**Associate in Applied Science | 61 credit hours minimum**

**School of Advanced Manufacturing, Transportation, and Hospitality Studies**

**Program Website (https://stlcc.edu/programs-academics/pathways/a-m-i-o-t/automotive-technology/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

## Program Description:

The AAS degree of Automotive Technology is a comprehensive degree that combines automotive training with general education courses that will prepare students for employment in the automotive service and repair industry. Students are trained in the eight Automotive Service Excellence (ASE) areas of specialization. Instruction for each of the ASE areas is supported through instructor-led presentations, demonstrations, and reinforced with guided hands-on lab activities. Students will also be administered a student-specific ASE test at the end of the program to prepare them for future ASE tests.

Persons interested in this program should be able to work well in a team setting, think critically, and be detailed-oriented. They should also be able to stand for long periods of time and possess a high level of manual dexterity and hand/eye coordination.

**Locations.** This program is offered in its entirety at Forest Park.

**Related Programs.** The Automotive Department offers certificates in the following areas:

- **Automotive Service, Certificate of Specialization (p. 79)**
- **Automotive Technology, Certificate of Proficiency (p. 85)**
- **Automotive Vehicle Inspection and Light Maintenance, Certificate of Specialization (p. 88)**

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

## At the completion of the program, students are expected to:

1. identify manual driveline components.
2. inspect manual driveline components for wear or damage.
3. service automatic transmission fluid and filter.
4. interpret automatic transmission sensor data.
5. identify HVAC components.
6. explain the flow of refrigeration in an automobile.
7. test vehicle sub-systems and components to determine root cause.
8. diagnose automotive related customer concerns.
9. replace faulty components.
10. perform the duties of a parts manager.
11. perform the duties of a service manager.
12. develop non-technical skills.
13. improve communication in both technical and non-technical applications.

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **General Education** | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 |
| or ENG 102 | College Composition II (MOTR ENGL 200) | |
| COM 101 | Oral Communication I (MOTR COMM 100) | 3 |
| or COM 107 | Public Speaking (MOTR COMM 110) | |
| MTH 108 | Elementary Applied Mathematics (or higher) | 3 |
| PSI 101 | Physical Science (MOTR PHYS 110) | 3 |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 |
| **Program Requirements** | | |
| BUS 104 | Introduction to Business Administration | 3 |
| AUT 101 | Automotive Fundamentals and Service Information | 3 |
| AUT 103 | Automotive Vehicle Inspection and Light Maintenance | 3 |
| AUT 105 | Automotive Maintenance and Service | 3 |
| AUT 107 | Automotive Steering and Suspension Service | 3 |
| AUT 110 | Automotive Electrical Principles | 3 |
| AUT 112 | Automotive Brake Systems Service and Diagnosis | 3 |
| AUT 114 | Automotive Engine Repair and Diagnosis | 3 |
| AUT 116 | Automotive Powertrain Controls | 3 |
| AUT 203 | Automotive Manual Drivetrain | 3 |
| AUT 210 | Automotive Transmissions and Transaxles | 3 |
| AUT 212 | Automotive Heating, Ventilation, and Air Conditioning | 3 |
| AUT 200 | Automotive Fieldwork Operations | 5 |
| AUT 200 | Automotive Fieldwork Operations | 5 |
| **Total Credit Hours** | | **61** |

# Full-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| AUT 101 | Automotive Fundamentals and Service Information | 3 | Reading Proficiency | Exploratory Course, Gateway Course, Critical Course |
| AUT 103 | Automotive Vehicle Inspection and Light Maintenance | 3 | Concurrent or prior enrollment in AUT 101 with a minimum grade of "C" and Reading Proficiency | |
| AUT 105 | Automotive Maintenance and Service | 3 | Concurrent or prior enrollment in AUT 101 and AUT 103 with minimum grades of "C", and Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| AUT 107 | Automotive Steering and Suspension Service | 3 | Concurrent or prior enrollment in AUT 101, AUT 103, AUT 105 with minimum grades of "C", and Reading Proficiency | Apply for Automotive Vehicle Inspection and Light Maintenance, Certificate of Specialization. |
| Choose one of the following: | | 3 | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| ENG 102 | College Composition II (MOTR ENGL 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| AUT 110 | Automotive Electrical Principles | 3 | Concurrent or prior enrollment in AUT 101 with a minimum grade of "C" and Reading Proficiency | |
| AUT 112 | Automotive Brake Systems Service and Diagnosis | 3 | Concurrent or prior enrollment in AUT 101 with a minimum grade of "C" and Reading Proficiency | |
| AUT 114 | Automotive Engine Repair and Diagnosis | 3 | Concurrent or prior enrollment in AUT 101 with a minimum grade of "C" and Reading Proficiency | |
| AUT 116 | Automotive Powertrain Controls | 3 | Concurrent or prior enrollment in AUT 101 with a minimum grade of "C" and Reading Proficiency | Apply for Automotive Service, Certificate of Specialization. |
| MTH 108 | Elementary Applied Mathematics (or higher) | 3 | Reading Proficiency | |
| | **Credit Hours** | **15** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| AUT 200 | Automotive Fieldwork Operations | 5 | AUT 107, AUT 110, AUT 112, AUT 114, AUT 116 with minimum grades of "C" and Reading Proficiency | Students must complete this course twice for Certificate of Proficiency and Associate in Applied Science requirements. |
| AUT 203 | Automotive Manual Drivetrain | 3 | AUT 101 with a minimum grade of "C" and Reading Proficiency | |
| BUS 104 | Introduction to Business Administration | 3 | Reading Proficiency | |
| PSI 101 | Physical Science (MOTR PHYS 110) | 3 | MTH 108 or MTH 140S with a minimum grade of "C", or placement into MTH 140 or higher, and Reading Proficiency | |
| Choose one of the following: | | 3 | | Apply for Automotive Technology, Certificate of Proficiency and Automotive Technology, Associate in Applied Science. |
| COM 101 | Oral Communication I (MOTR COMM 100) | | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | |
| COM 107 | Public Speaking (MOTR COMM 110) | | Reading Proficiency | |
| | **Credit Hours** | **17** | | |

| | | | | |
|---|---|---|---|---|
| **Spring** | | | | |
| AUT 200 | Automotive Fieldwork Operations | 5 | AUT 107, AUT 110, AUT 112, AUT 114, AUT 116 with minimum grades of "C" and Reading Proficiency | Students must complete this course twice for Certificate of Proficiency and Associate in Applied Science requirements. |
| AUT 210 | Automotive Transmissions and Transaxles | 3 | AUT 101 with a minimum grade of "C" and Reading Proficiency | |
| AUT 212 | Automotive Heating, Ventilation, and Air Conditioning | 3 | AUT 110 with a minimum grade of "C" and Reading Proficiency | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | |
| | **Credit Hours** | **14** | | |
| | **Total Credit Hours** | **61** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Automotive Technology: CP

**Certificate of Proficiency | 43 credit hours minimum**

**School of Advanced Manufacturing, Transportation, and Hospitality Studies**

**Program Website (https://stlcc.edu/programs-academics/pathways/a-m-i-o-t/automotive-technology/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

Automotive Technology Certificate of Proficiency is a comprehensive certificate that focuses on comprehensive automotive training that will prepare students for employment in the automotive service and repair industry. Students are trained in the eight Automotive Service Excellence (ASE) areas of specialization. Instruction for each of the ASE areas is supported through instructor-led presentations and demonstrations and is reinforced with guided hands-on lab activities. Students will be administered a student-specific ASE test at the end of the program to prepare them for future ASE tests.

**Locations.** This program is offered in its entirety at Forest Park.

**Related Programs.** The Automotive Technology Department offers an associate and certificates in the following areas:

- **Automotive Service, Certificate of Specialization (p. 79)**
- **Automotive Technology, Associate in Applied Science (p. 82)**
- **Automotive Vehicle Inspection and Light Maintenance, Certificate of Specialization (p. 88)**

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program “St. Louis Community College” and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. identify manual driveline components.
2. inspect manual driveline components for wear or damage.
3. service automatic transmission fluid and filter.
4. interpret automatic transmission sensor data.
5. identify HVAC components.
6. explain the flow of refrigeration in an automobile.
7. test vehicle sub-systems and components to determine root cause.
8. diagnose automotive related customer concerns.
9. replace faulty components.
10. perform the duties of a parts manager.
11. perform the duties of a service manager.

# Program of Study

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

| Code | Title | Credit Hours |
|---|---|---|
| **Program Requirements** | | |
| AUT 101 | Automotive Fundamentals and Service Information | 3 |
| AUT 103 | Automotive Vehicle Inspection and Light Maintenance | 3 |
| AUT 105 | Automotive Maintenance and Service | 3 |
| AUT 107 | Automotive Steering and Suspension Service | 3 |
| AUT 110 | Automotive Electrical Principles | 3 |
| AUT 112 | Automotive Brake Systems Service and Diagnosis | 3 |
| AUT 114 | Automotive Engine Repair and Diagnosis | 3 |
| AUT 116 | Automotive Powertrain Controls | 3 |
| AUT 203 | Automotive Manual Drivetrain | 3 |
| AUT 210 | Automotive Transmissions and Transaxles | 3 |
| AUT 212 | Automotive Heating, Ventilation, and Air Conditioning | 3 |
| AUT 200 | Automotive Fieldwork Operations | 5 |
| AUT 200 | Automotive Fieldwork Operations | 5 |
| **Total Credit Hours** | | **43** |

# Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| AUT 101 | Automotive Fundamentals and Service Information | 3 | Reading Proficiency | Exploratory Course, Gateway Course, Critical Course |
| AUT 103 | Automotive Vehicle Inspection and Light Maintenance | 3 | Concurrent or prior enrollment in AUT 101 with a minimum grade of "C" and Reading Proficiency | |
| AUT 105 | Automotive Maintenance and Service | 3 | Concurrent or prior enrollment in AUT 101 and AUT 103 with minimum grades of "C", and Reading Proficiency | |
| AUT 107 | Automotive Steering and Suspension Service | 3 | Concurrent or prior enrollment in AUT 101, AUT 103, AUT 105 with minimum grades of "C", and Reading Proficiency | Apply for Automotive Vehicle Inspection and Light Maintenance, Certificate of Specialization. |
| | **Credit Hours** | **12** | | |
| **Spring** | | | | |
| AUT 110 | Automotive Electrical Principles | 3 | Concurrent or prior enrollment in AUT 101 with a minimum grade of "C" and Reading Proficiency | |
| AUT 112 | Automotive Brake Systems Service and Diagnosis | 3 | Concurrent or prior enrollment in AUT 101 with a minimum grade of "C" and Reading Proficiency | |
| AUT 114 | Automotive Engine Repair and Diagnosis | 3 | Concurrent or prior enrollment in AUT 101 with a minimum grade of "C" and Reading Proficiency | |
| AUT 116 | Automotive Powertrain Controls | 3 | Concurrent or prior enrollment in AUT 101 with a minimum grade of "C" and Reading Proficiency | Apply for Automotive Service, Certificate of Specialization. |
| | **Credit Hours** | **12** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| AUT 200 | Automotive Fieldwork Operations | 5 | AUT 107, AUT 110, AUT 112, AUT 114, AUT 116 with minimum grades of "C" and Reading Proficiency | |
| AUT 203 | Automotive Manual Drivetrain | 3 | AUT 101 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **8** | | |
| **Spring** | | | | |
| AUT 200 | Automotive Fieldwork Operations | 5 | AUT 107, AUT 110, AUT 112, AUT 114, AUT 116 with minimum grades of "C" and Reading Proficiency | Apply for graduation. |
| AUT 210 | Automotive Transmissions and Transaxles | 3 | AUT 101 with a minimum grade of "C" and Reading Proficiency | |
| AUT 212 | Automotive Heating, Ventilation, and Air Conditioning | 3 | AUT 110 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **11** | | |
| | **Total Credit Hours** | **43** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Automotive Vehicle Inspection and Light Maintenance: CS

**Certificate of Specialization | 12 credit hours minimum**

**School of Advanced Manufacturing, Transportation, and Hospitality Studies**

**Program Website (https://stlcc.edu/programs-academics/pathways/a-m-i-o-t/automotive-technology/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

Automotive Vehicle Inspection and Light Maintenance Certificate of Specialization teaches students the essential skills needed to gain entry-level employment in the automotive industry. Students will gain a deep understanding of safety procedures used in the automotive industry as well as learn how to perform a comprehensive vehicle inspection. Students will begin to learn how to perform light maintenance on vehicle fluids, steering and suspension components, and alignments.

**Locations.** This program is offered in its entirety at Forest Park.

**Related Programs.** The Automotive Technology Department offers an associate and a certificate in the following areas:

- **Automotive Service, Certificate of Specialization (p. 79)**
- **Automotive Technology, Associate in Applied Science (p. 82)**
- **Automotive Technology, Certificate of Proficiency (p. 85)**

**Financial Aid.** This Certificate of Specialization is not eligible for financial aid.

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program “St. Louis Community College” and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. demonstrate how to properly lift and support a vehicle using a drive-on and two-post style lift.
2. demonstrate proper waste handling practices and clean shop practices.
3. inspect different automotive fluid types and their condition.
4. inspect suspension, chassis, and brake components using Missouri Safety Inspection guidelines.
5. service a tire and wheel assembly to include replacing or repairing the tire, balancing the assembly, and reprogramming the Tire Pressure Monitoring System (TPMS).
6. remove and replace worn steering and suspension components.

# Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Program Requirements** | | |
| AUT 101 | Automotive Fundamentals and Service Information | 3 |
| AUT 103 | Automotive Vehicle Inspection and Light Maintenance | 3 |
| AUT 105 | Automotive Maintenance and Service | 3 |
| AUT 107 | Automotive Steering and Suspension Service | 3 |
| **Total Credit Hours** | | **12** |

# Full-Time Academic Plan (Day Program)

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| AUT 101 | Automotive Fundamentals and Service Information | 3 | Reading Proficiency | Exploratory Course, Gateway Course, Critical Course |
| AUT 103 | Automotive Vehicle Inspection and Light Maintenance | 3 | Concurrent or prior enrollment in AUT 101 with a minimum grade of "C" and Reading Proficiency | |
| AUT 105 | Automotive Maintenance and Service | 3 | Concurrent or prior enrollment in AUT 101 and AUT 103 with minimum grades of "C", and Reading Proficiency | |
| AUT 107 | Automotive Steering and Suspension Service | 3 | Concurrent or prior enrollment in AUT 101, AUT 103, AUT 105 with minimum grades of "C", and Reading Proficiency | Apply for graduation. |
| | **Credit Hours** | **12** | | |
| | **Total Credit Hours** | **12** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Part-Time Academic Plan (Evening Program)

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| AUT 101 | Automotive Fundamentals and Service Information | 3 | Reading Proficiency | Exploratory Course, Gateway Course, Critical Course |
| AUT 103 | Automotive Vehicle Inspection and Light Maintenance | 3 | Concurrent or prior enrollment in AUT 101 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| **Spring** | | | | |
| AUT 105 | Automotive Maintenance and Service | 3 | Concurrent or prior enrollment in AUT 101 and AUT 103 with minimum grades of "C", and Reading Proficiency | |
| AUT 107 | Automotive Steering and Suspension Service | 3 | Concurrent or prior enrollment in AUT 101, AUT 103, AUT 105 with minimum grades of "C", and Reading Proficiency | Apply for graduation. |
| | **Credit Hours** | **6** | | |
| | **Total Credit Hours** | **12** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Baking and Pastry Arts: AAS

**Associate in Applied Science | 65 credit hours minimum**

**School of Advanced Manufacturing, Transportation, and Hospitality Studies**

**Program Website (https://stlcc.edu/programs-academics/pathways/b-m-c-a-h/baking-and-pastry-arts/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

The AAS in Hospitality Studies: Baking and Pastry Arts will allow students to gain the necessary theoretical and practical knowledge to become a successful pastry professional. Concepts of baking theory; breads, rolls, and bakeries; production pastry techniques; and cake production and decoration will lay the foundation for essential pastry-related skills. Advanced classes in artisan and decorative bread; ice cream and frozen desserts; chocolate candies and showpieces; plated desserts; and sugar candies and showpieces will allow specialized training in specific areas of concentration for the aspiring pastry chef. The final course, Baking and Pastry Arts Capstone, will give the student a real-world simulation of what to expect upon graduation, while preparing them to earn the Certified Pastry Culinarian certification from the American Culinary Federation.

**Locations.** This program is offered in its entirety at Forest Park.

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. work within established guidelines for safety and sanitation at all times.
2. demonstrate a basic understanding of basic baking and pastry cooking techniques.
3. prepare numerous benchmark formulations for bakery and pastry staples outlined by the American Culinary Federation's Certified Pastry Culinarian certification standards.
4. interpret numerical data that will influence financial decisions in bakeshop operations including calculation of food, recipe, and labor costs.
5. prepare savory food products, using standards defined by the American Culinary Federation.
6. project a level of professionalism appropriate to hospitality industry standards.
7. describe functions and food sources of the major nutrients in food preparation and storage.
8. utilize artistic concepts in presenting pastry goods and showpieces.

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **General Education** | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 |
| COM 101 | Oral Communication I (MOTR COMM 100) | 3 |
| MTH 108 | Elementary Applied Mathematics (or higher) | 3 |
| BIO 125 | Principles of Nutrition (MOTR LIFS 100N) | 3 |
| SOC 101 | Introduction to Sociology (MOTR SOCI 101) | 3 |
| HST 102 | United States History from 1865 to the Present (MOTR HIST 102) | 3 |
| **Program Requirements** | | |
| HTM 100 | Introduction to the Hospitality Industry | 3 |
| CUL 101 | Safety and Sanitation | 1 |
| BIO 177 | Food Science | 3 |
| HTM 120 | Supervision and Leadership in the Hospitality Industry | 3 |
| HTM 200 | Procurement in the Hospitality Industry | 3 |
| HTM 210 | Hospitality Financial Planning and Cost Control | 3 |
| **Baking and Pastry Arts Option** | | |
| BAP 101 | Introduction to Baking Theory | 3 |
| BAP 105 | Breads, Rolls, and Bakeries | 3 |
| BAP 110 | Production Pastry Techniques | 3 |
| BAP 115 | Cake Production and Decoration | 3 |
| BAP 160 | Artistic Concepts in Pastry | 3 |
| BAP 201 | Artisan and Decorative Bread | 2 |
| CUL 150 | Culinary Essentials | 3 |
| BAP 205 | Ice Cream and Frozen Desserts | 2 |
| BAP 210 | Chocolate and Candy Confections | 2 |
| BAP 215 | Plated Desserts | 2 |
| BAP 220 | Sugar Candies and Showpieces | 2 |

| | | |
|---|---|---|
| BAP 260 | Baking and Pastry Arts Capstone | 3 |
| **Total Credit Hours** | | **65** |

# Full-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| MTH 108 | Elementary Applied Mathematics (or higher) | 3 | Reading Proficiency | |
| SOC 101 | Introduction to Sociology (MOTR SOCI 101) | 3 | Reading Proficiency or concurrent enrollment in RDG 079 | |
| HTM 100 | Introduction to the Hospitality Industry | 3 | Reading Proficiency | Exploratory Course, Gateway Course |
| CUL 101 | Safety and Sanitation | 1 | Reading Proficiency | Gateway Course, Critical Course. Upon successful completion of this semester, students are eligible to enroll in lab classes. |
| BIO 125 | Principles of Nutrition (MOTR LIFS 100N) | 3 | Reading Proficiency | |
| | **Credit Hours** | **16** | | |
| **Spring** | | | | |
| BIO 177 | Food Science | 3 | Reading Proficiency | |
| BAP 101 | Introduction to Baking Theory [1] | 3 | CUL 101 with a grade of "S", HTM 100 with a minimum grade of "C", and Reading Proficiency | Gateway Course, Critical Course. See Footnote 1 below for additional information. |
| BAP 105 | Breads, Rolls, and Bakeries [1] | 3 | BAP 101 with a minimum grade of "C" and Reading Proficiency | See Footnote 1 below for additional information. |
| BAP 110 | Production Pastry Techniques [1] | 3 | BAP 105 with a minimum grade of "C" and Reading Proficiency | See Footnote 1 below for additional information. |
| BAP 115 | Cake Production and Decoration [1] | 3 | BAP 110 with a minimum grade of "C" and Reading Proficiency | See Footnote 1 below for additional information. |
| CUL 150 | Culinary Essentials [1] | 3 | CUL 101 with a grade of "S", HTM 100 with a minimum grade of "C", and Reading Proficiency | See Footnote 1 below for additional information. |
| | **Credit Hours** | **18** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| HTM 200 | Procurement in the Hospitality Industry | 3 | HTM 100 and MTH 108 or higher with minimum grades of "C", and Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| HTM 210 | Hospitality Financial Planning and Cost Control | 3 | HTM 100 and MTH 108 or higher with minimum grades of "C", and Reading Proficiency | |
| BAP 160 | Artistic Concepts in Pastry | 3 | Reading Proficiency | |
| BAP 201 | Artisan and Decorative Bread [2] | 2 | BAP 115 with a minimum grade of "C" and Reading Proficiency | See Footnote 2 below for additional information. |
| BAP 205 | Ice Cream and Frozen Desserts [2] | 2 | BAP 201 with a minimum grade of "C" and Reading Proficiency | See Footnote 2 below for additional information. |
| BAP 210 | Chocolate Candies and Showpieces [2] | 2 | BAP 205 with a minimum grade of "C" and Reading Proficiency | See Footnote 2 below for additional information. |
| BAP 215 | Plated Desserts [2] | 2 | BAP 210 with a minimum grade of "C" and Reading Proficiency | See Footnote 2 below for additional information. |
| BAP 220 | Sugar Candies and Showpieces [2] | 2 | BAP 215 with a minimum grade of "C" and Reading Proficiency | See Footnote 2 below for additional information. |
| | **Credit Hours** | **19** | | |
| **Spring** | | | | |
| COM 101 | Oral Communication I (MOTR COMM 100) | 3 | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | |
| HST 102 | United States History from 1865 to the Present (MOTR HIST 102) | 3 | Reading Proficiency or concurrent enrollment in RDG 079 | |
| HTM 120 | Supervision and Leadership in the Hospitality Industry | 3 | HTM 100 with a minimum grade of "C" and Reading Proficiency | |
| BAP 260 | Baking and Pastry Arts Capstone | 3 | CUL 150, BAP 220, HTM 200, and HTM 210 with minimum grades of "C", and Reading Proficiency | Students are eligible to apply to the American Culinary Federation for certification as a Certified Pastry Culinarian (CPC) upon graduation. |
| | **Credit Hours** | **12** | | |
| | **Total Credit Hours** | **65** | | |

1 These courses are part of Pastry Block #1. Students are asked to enroll in BAP 101, BAP 105, BAP 110, BAP 115, and CUL 150 in the same semester. Please contact Baking and Pastry Arts Program Coordinator, Abby Benz, for course entry advisement at **abenz7@stlcc.edu**.

2 These courses are part of Pastry Block #2. Students are asked to enroll in BAP 201, BAP 205, BAP 210, BAP 215, and BAP 220 in the same semester. Please contact Baking and Pastry Arts Program Coordinator, Abby Benz, for course entry advisement at **abenz7@stlcc.edu**.

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Behavioral Health Support: AAS

**Associate in Applied Science | 61 credit hours minimum**

**School of Education, Public Service, and Social Sciences**

**Program Website (https://stlcc.edu/programs-academics/pathways/s-b-s-h-s-e/behavioral-health-support/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

## Program Description:

The Behavioral Health Support Associate in Applied Science provides a pathway for entry-level positions within the helping professions. The program includes a general education component as well as a concentration in the skills necessary to work in mental health. The hands-on practicum experiences in community settings prepare students for Community Support Specialist positions in mental health settings, assisting clients with behavioral and mental health diagnoses. Graduates of this program are qualified for entry-level positions in state, county, and local human service agencies, substance use disorder facilities, community mental health centers, hospitals, schools, and other identified agencies. The Behavioral Health Support program is designed to prepare students for employment in the State of Missouri.

NOTE: Practicum experience requires a criminal background check and have a valid driver's license to participate. Additional requirements such as drug screens, immunizations, and vaccinations may be necessary.

**Locations.** This program is offered at Florissant Valley and Forest Park by taking a mixture of face-to-face and online courses.

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program “St. Louis Community College” and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

## At the completion of the program, students are expected to:

1. collaborate in the development, revision, and execution of an individualized treatment plan that identifies specific, measurable, time-limited goals, and interventions.
2. obtain certification in Mental Health First Aid.
3. communicate with clients regarding internal and external resources for recovery.
4. create documentation to support client and treatment plan.
5. assist clients with various mental health needs within practicum settings.
6. analyze potential legal and ethical issues as they relate to targeted populations.
7. combine foundational knowledge of risk factors, treatment options, and recovery techniques to assist clients with a variety of mental illnesses.
8. generate appropriate helping responses for individuals in mental health crisis and/or with suicidal ideation.

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate’s degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

### Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **General Education** | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 |
| ENG 103 | Report Writing (MOTR ENGL 110) | 3 |
| or ENG 102 | College Composition II (MOTR ENGL 200) | |
| COM 201 | Interpersonal Communication (MOTR COMM 120) | 3 |
| or COM 107 | Public Speaking (MOTR COMM 110) | |
| or COM 200 | Communication Between Cultures (MOTR SBSC 101) | |

| | | |
|---|---|---|
| MTH 108 | Elementary Applied Mathematics (or higher, MTH 180 recommended for transfer) | 3 |
| or BIO 113 | Modern Aspects of Biology (MOTR BIOL 100) | |
| or BIO 151 | Biology of Human Health and Disease (MOTR LIFS 100D) | |
| PSY 200 | General Psychology (MOTR PSYC 100) | 3 |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 |
| PSY 205 | Human Growth and Development (MOTR PSYC 200) | 3 |
| PSY 208 | Abnormal Psychology | 3 |
| SOC 211 | Substance Use, Abuse, and Dependence | 3 |
| PRD 128 | Mental Health First Aid | 1 |
| **Program Requirements** | | |
| BHS 200 | Introduction to Behavioral Health Support | 3 |
| BHS 205 | Legal and Ethical Issues in Behavioral Health Support | 3 |
| BHS 210 | Systems of Care | 3 |
| BHS 215 | Clinical Encounters I: Interviewing and Assessment | 3 |
| BHS 220 | Integrated Health | 3 |
| BHS 230 | Clinical Encounters II: Crisis and Interventions | 3 |
| BHS 225 | Support for Youth and Families | 3 |
| BHS 260 | Evidence Based Treatment | 4 |
| BHS 250 | Behavioral Health Support Practicum I | 3 |
| BHS 270 | Behavioral Health Support Practicum II | 3 |
| BHS 251 | Behavioral Health Support Seminar I | 1 |
| BHS 271 | Behavioral Health Support Seminar II | 1 |
| **Total Credit Hours** | | **61** |

# Full-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| PSY 200 | General Psychology (MOTR PSYC 100) | 3 | Reading Proficiency or concurrent enrollment in RDG 079 | Gateway and Critical Course |
| COM 200<br>or 201<br>or 107 | Communication Between Cultures (MOTR SBSC 101)<br>or Interpersonal Communication (MOTR COMM 120)<br>or Public Speaking (MOTR COMM 110) | 3 | Reading Proficiency | |
| BHS 200 | Introduction to Behavioral Health Support | 3 | Reading Proficiency | Prerequisite to all BHS Courses. Exploratory Course, Gateway Course, Critical Course. |
| MTH 108<br>or BIO 113<br>or BIO 151 | Elementary Applied Mathematics (or higher)<br>or Modern Aspects of Biology (MOTR BIOL 100)<br>or Biology of Human Health and Disease (MOTR LIFS 100D) | 3 | Reading Proficiency | Recommend MTH 180 for students continuing to university |

| | | | | |
|---|---|---|---|---|
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | Critical Course |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| PSY 205 | Human Growth and Development (MOTR PSYC 200) | 3 | PSY 200 with a minimum grade of "C" and Reading Proficiency | |
| BHS 205 | Legal and Ethical Issues in Behavioral Health Support | 3 | Reading Proficiency | |
| BHS 210 | Systems of Care | 3 | BHS 200, ENG 101, and PSY 200 with minimum grades of "C," successful admission into the Behavioral Health Support program, and Reading Proficiency | |
| BHS 215 | Clinical Encounters I: Interviewing and Assessment | 3 | BHS 200, ENG 101, and PSY 200 with minimum grades of "C," successful admission into the Behavioral Health Support program, and Reading Proficiency | |
| ENG 102<br>or 103 | College Composition II (MOTR ENGL 200)<br>or Report Writing (MOTR ENGL 110) | 3 | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **15** | | |
| **Summer** | | | | |
| SOC 211 | Substance Use, Abuse, and Dependence | 3 | Reading Proficiency | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | PSC 101 is recommended. |
| | **Credit Hours** | **6** | | |
| **Second Year**<br>**Fall** | | | | |
| PSY 208 | Abnormal Psychology | 3 | PSY 200 with a minimum grade of "C" and Reading Proficiency | |
| BHS 220 | Integrated Health | 3 | BHS 200 with a minimum grade of "C" and Reading Proficiency | |
| BHS 230 | Clinical Encounters II: Crisis and Interventions | 3 | BHS 215 with a minimum grade of "C" and Reading Proficiency | |
| BHS 250 | Behavioral Health Support Practicum I | 3 | BHS 215 with minimum grades of "C", and Reading Proficiency | |
| BHS 251 | Behavioral Health Support Seminar I | 1 | BHS 215 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **13** | | |
| **Spring** | | | | |
| PRD 128 | Mental Health First Aid | 1 | Reading Proficiency | Apply for graduation. |
| BHS 225 | Support for Youth and Families | 3 | BHS 200 with a minimum grade of "C" and Reading Proficiency | |
| BHS 260 | Evidence Based Treatment | 4 | BHS 230, BHS 250, and BHS 251 with minimum grades of "C" and Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| BHS 270 | Behavioral Health Support Practicum II | 3 | BHS 230, BHS 250, and BHS 251 with minimum grades of 'C' and Reading Proficiency | |
| BHS 271 | Behavioral Health Support Seminar II | 1 | BHS 230, BHS 250, and BHS 251 with minimum grades of "C" and Reading Proficiency | |
| | **Credit Hours** | **12** | | |
| | **Total Credit Hours** | **61** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Part-Time Academic Plan

Students should complete all non-BHS courses and BHS 200 before progressing further. Completing these courses first increases employability, as agencies typically hire upon graduation.

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| BHS 200 | Introduction to Behavioral Health Support | 3 | Reading Proficiency | Exploratory Course, Gateway Course, and Critical Course |
| MTH 108<br>or BIO 113<br>or BIO 151 | Elementary Applied Mathematics (or higher)<br>or Modern Aspects of Biology (MOTR BIOL 100)<br>or Biology of Human Health and Disease (MOTR LIFS 100D) | 3 | Reading Proficiency | Recommend MTH 180 for students continuing to university |
| PSY 200 | General Psychology (MOTR PSYC 100) | 3 | Reading Proficiency or concurrent enrollment in RDG 079 | Gateway Course, Critical Course |
| | **Credit Hours** | **9** | | |
| **Spring** | | | | |
| COM 200<br>or 201<br>or 107 | Communication Between Cultures (MOTR SBSC 101)<br>or Interpersonal Communication (MOTR COMM 120)<br>or Public Speaking (MOTR COMM 110) | 3 | Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | Critical Course |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | PSC 101 is recommended. |
| | **Credit Hours** | **9** | | |
| **Summer** | | | | |
| PSY 205 | Human Growth and Development (MOTR PSYC 200) | 3 | PSY 200 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **3** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| PSY 208 | Abnormal Psychology | 3 | PSY 200 with a minimum grade of "C" and Reading Proficiency | |
| ENG 102<br>or 103 | College Composition II (MOTR ENGL 200)<br>or Report Writing (MOTR ENGL 110) | 3 | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| BHS 205 | Legal and Ethical Issues in Behavioral Health Support | 3 | Reading Proficiency | |
| | **Credit Hours** | **9** | | |
| **Spring** | | | | |
| BHS 210 | Systems of Care | 3 | BHS 200, ENG 101, and PSY 200 with minimum grades of "C," successful admission into the Behavioral Health Support program, and Reading Proficiency | |
| BHS 215 | Clinical Encounters I: Interviewing and Assessment | 3 | BHS 200, ENG 101, and PSY 200 with minimum grades of "C," successful admission into the Behavioral Health Support program, and Reading Proficiency | |
| BHS 220 | Integrated Health | 3 | BHS 200 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **9** | | |
| **Summer** | | | | |
| SOC 211 | Substance Use, Abuse, and Dependence | 3 | Reading Proficiency | |
| PRD 128 | Mental Health First Aid | 1 | Reading Proficiency | |
| | **Credit Hours** | **4** | | |
| **Third Year** | | | | |
| **Fall** | | | | |
| BHS 225 | Support for Youth and Families | 3 | BHS 200 with a minimum grade of "C" and Reading Proficiency | |
| BHS 230 | Clinical Encounters II: Crisis and Interventions | 3 | BHS 215 with a minimum grade of "C" and Reading Proficiency | |
| BHS 250 | Behavioral Health Support Practicum I | 3 | BHS 215 with minimum grades of "C", and Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| BHS 251 | Behavioral Health Support Seminar I | 1 | BHS 215 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **10** | | |
| **Spring** | | | | |
| BHS 260 | Evidence Based Treatment | 4 | BHS 230, BHS 250, and BHS 251 with minimum grades of "C" and Reading Proficiency | Apply for graduation. |
| BHS 270 | Behavioral Health Support Practicum II | 3 | BHS 230, BHS 250, and BHS 251 with minimum grades of 'C' and Reading Proficiency | |
| BHS 271 | Behavioral Health Support Seminar II | 1 | BHS 230, BHS 250, and BHS 251 with minimum grades of "C" and Reading Proficiency | |
| | **Credit Hours** | **8** | | |
| | **Total Credit Hours** | **61** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Biomedical Electronics Technology: CP

**Certificate of Proficiency | 28 credit hours minimum**

**School of Advanced Manufacturing, Transportation, and Hospitality Studies**

**Program Website (https://stlcc.edu/programs-academics/pathways/a-m-i-o-t/biomedical-electronics-technology/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

The Biomedical Electronics Technology Certificate of Proficiency provides students with skills necessary to enter the field of Biomedical Electronics service and support as Biomedical Electronics Technicians (BMET). Students will learn electrical and electronic concepts associated with medical electronics and devices, basic science behind instruments, and troubleshooting techniques.

An individual who has been convicted of a felony may not be qualified for employment as a BMET in healthcare.

**Locations.** This program is offered in its entirety at Florissant Valley.

**Related Programs.** The Engineering Technology and Manufacturing Department offers an associate in the following area:

- **Engineering Technology, Associate in Applied Science (p. 207)**

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program “St. Louis Community College” and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. repair basic medical patient monitoring equipment.
2. troubleshoot common problems and issues with electronic equipment.
3. describe the regulatory requirements that govern a hospital's or clinic's ability to provide a safe environment for patients and employees.
4. evaluate medical equipment for electrical safety (including electrostatic discharge, ESD).
5. read schematic diagrams and service manuals in order to address issues with complex equipment.
6. analyze electronic circuits, both Alternating Current (AC) and Direct Current (DC), using instruments, meters, and analyzers to troubleshoot circuits and circuit boards.
7. describe future trends in medical instrumentation and patient care technology, including computer systems and integration with network systems.
8. apply basic networking terminology for describing medical device setups.

# Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Program Requirements** | | |
| MTH 140 | Intermediate Algebra (or MTH 140S or higher, excluding MTH 161, MTH 161S, MTH 180, and MTH 180S) | 3 |
| EE 134 | Electric Circuits | 6 |
| EE 132 | Electronic Devices | 5 |
| BE 153 | Workplace Learning: Biomedical Electronics Technology | 4-6 |
| BE 254 | Biomedical Applications | 5 |
| IT 101 | Cisco Networking Academy I: Introduction to Networks | 5 |
| **Total Credit Hours** | | **28-30** |

# Part-Time Academic Plan

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| MTH 140 | Intermediate Algebra (or MTH 140S or higher) | 3 | Satisfactory placement and Reading Proficiency | Excluding MTH 161, MTH 161S, MTH 180, and MTH 180S |
| EE 134 | Electric Circuits | 6 | MTH 140 (or MTH 140S) with a minimum grade of "C" or equivalent placement test scores or department approval and Reading Proficiency | Exploratory Course, Gateway Course, Critical Course |
| | **Credit Hours** | **9** | | |
| **Spring** | | | | |
| EE 132 | Electronic Devices | 5 | EE 134 with a minimum grade of "C" and Reading Proficiency | |
| IT 101 | Cisco Networking Academy I: Introduction to Networks | 5 | Reading Proficiency | |
| | **Credit Hours** | **10** | | |

| | | | | |
|---|---|---|---|---|
| **Second Year** | | | | |
| **Fall** | | | | |
| BE 153 | Workplace Learning: Biomedical Electronics Technology | 4-6 | BE 254 with a minimum grade of "C" and Reading Proficiency | Student may need prerequisite override. |
| BE 254 | Biomedical Applications | 5 | EE 132 with a minimum grade of "C" and Reading Proficiency | Critical Course |
| | **Credit Hours** | **9-11** | | |
| | **Total Credit Hours** | **28-30** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Biotechnology: AAS

**Associate in Applied Science | 60 credit hours minimum**

**School of Science, Technology, Engineering, and Math (STEM)**

**Program Website (https://stlcc.edu/programs-academics/pathways/s-t-e-m/biotechnology/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

The Associate in Applied Science in Biotechnology offers students specialized training for employment as biotechnicians engaged in research and development, quality control, biomanufacturing, and bioprocessing. All students in this field of study are required to complete the core biotechnology/science courses. Specialization is offered by allowing individualized selection of advanced topics in biotechnology. The completion of this program provides the knowledge and hands on skills necessary to work in a life science research laboratory/workplace.

**Locations.** This program is offered in its entirety at Florissant Valley.

**Related Programs.** The Biotechnology Department offers a certificate in the following area:

- **Biotechnology, Certificate of Proficiency (p. 108)**

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program “St. Louis Community College” and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. describe experimental procedures and conclusions.
2. perform Good Documentation Practices from which data analysis, project decisions, and successive experimental designs are achieved.
3. apply recombinant DNA technology techniques focusing from DNA to protein, and inheritance of genetic information.

4. adhere to laboratory standards including use of Personal Protective Equipment, documentation and organization and cleanliness in the workspace.
5. collaborate within a team environment.
6. design experiments using basic molecular biology methodologies with proper controls and anticipated results defined.
7. perform experiments using basic molecular biology methodologies such as separation of macromolecules through electrophoretic techniques, polymerase chain reaction, cell culture, recombinant DNA techniques, and protein expression/purification.
8. assess the contributions of biotechnology to advances in the fields of agriculture and human health.
9. analyze scientific information derived from peer-reviewed journals.
10. explain significant contributions in the fields of biotechnology.

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **General Education** | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 |
| or ENG 102 | College Composition II (MOTR ENGL 200) | |
| COM 101 | Oral Communication I (MOTR COMM 100) | 3 |
| or COM 107 | Public Speaking (MOTR COMM 110) | |
| or COM 201 | Interpersonal Communication (MOTR COMM 120) | |
| MTH 160 | Precalculus Algebra (MOTR MATH 130) (or MTH 160S) | 3 |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 |
| CHM 105 | General Chemistry I (MOTR CHEM 150L) | 5 |
| BIO 140 | Principles of Biology I (MOTR BIOL 150L) | 5 |
| **Program Requirements** | | |
| BTX 104 | Basic Laboratory Methods for Biotechnology | 3 |
| BTX 152 | Quantitative Methods in Biotechnology | 2 |
| BTX 228 | Research and Presentation Skills for the Life Sciences | 2 |
| BIO 225 | Genetics | 3 |
| BIO 235 | Genetics Laboratory | 2 |
| BTX 218 | Microbiology for Biotechnology | 4 |
| BTX 219 | Biotechnology I | 5 |
| BTX 220 | Biotechnology II | 5 |
| BTX 221 | Workplace Learning: Biotechnology | 3-6 |
| BTX 226 | Advanced Topics in Biotechnology (minimum of two sections required) | 3 |
| BTX 226 | Advanced Topics in Biotechnology (minimum of two sections required) | 3 |
| BTX 226 | Advanced Topics in Biotechnology | 3 |
| or HRT 134 | Micropropagation of Plants | |
| or BIO 231 | Cell Biology | |
| **Total Credit Hours** | | **60-63** |

# Full-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| BIO 140 | Principles of Biology I (MOTR BIOL 150L) | 5 | MTH 140 or MTH 140S or MTH 160S with a minimum grade of "C" or placement into MTH 160, and Reading Proficiency | Gateway Course, Critical Course |
| BTX 104 | Basic Laboratory Methods for Biotechnology | 3 | Placement into MTH 140 or higher or completion of MTH 140S with a minimum grade of "C", and Reading Proficiency | Gateway course, Exploratory course, Critical course |
| BTX 152 | Quantitative Methods in Biotechnology | 2 | Placement into MTH 140 or completion of MTH 140S with a minimum grade of "C" or better, CHM 101 with a minimum grade of "C" or one year of high school chemistry, and Reading Proficiency | |
| MTH 160 | Precalculus Algebra (MOTR MATH 130) | 3 | MTH 140 (or MTH 140S) with a minimum grade of "C" or satisfactory score on placement test, and Reading Proficiency | |
| | **Credit Hours** | **13** | | |
| **Spring** | | | | |
| BTX 219 | Biotechnology I | 5 | BTX 104 or BIO 104 with a minimum grade of "C", BIO 140 with a minimum grade of "C", and Reading Proficiency | |
| BTX 226 | Advanced Topics in Biotechnology | 3 | Concurrent or prior enrollment in BTX 219 or BIO 219 with a minimum grade of "C" and Reading Proficiency | A minimum of two Advanced Topics must be taken. Possible topics may include QPCR, Advanced Cell Culture Techniques, Bioinformatics. The third Advanced Topics may be substituted with HRT 134 Micropropagation of Plants or BIO 231 Cell Biology. |
| Choose one of the following: | | 3 | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| ENG 102 | College Composition II (MOTR ENGL 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | |
| | **Credit Hours** | **14** | | |
| **Summer** | | | | |
| CHM 105 | General Chemistry I (MOTR CHEM 150L) | 5 | MTH 140 (or MTH 140S or at least one and a half years of high school algebra) and CHM 101 with a minimum grade of "C" or one year of high school chemistry, and Reading Proficiency | |
| | **Credit Hours** | **5** | | |

| | | | | |
|---|---|---|---|---|
| **Second Year** | | | | |
| **Fall** | | | | |
| BIO 225 | Genetics | 3 | BIO 140 with a minimum grade of "C" and Reading Proficiency | |
| BIO 235 | Genetics Laboratory | 2 | BIO 140 with a minimum grade of "C", concurrent or prior enrollment in BIO 225 with a minimum grade of "C", and Reading Proficiency | |
| BTX 218 | Microbiology for Biotechnology | 4 | BIO 140 and CHM 105 with minimum grades of "C" and Reading Proficiency | |
| BTX 226 | Advanced Topics in Biotechnology | 3 | Concurrent or prior enrollment in BTX 219 or BIO 219 with a minimum grade of "C" and Reading Proficiency | A minimum of two Advanced Topics must be taken. Possible topics may include QPCR, Advanced Cell Culture Techniques, Bioinformatics. The third Advanced Topics may be substituted with HRT 134 Micropropagation of Plants or BIO 231 Cell Biology. |
| | **Credit Hours** | **12** | | |
| **Spring** | | | | |
| BTX 220 | Biotechnology II | 5 | BTX 219 or BIO 219 with a minimum grade of "C" and Reading Proficiency | |
| BTX 221 | Workplace Learning: Biotechnology | 3-6 | Concurrent or prior enrollment in BTX 220 or BIO 220 with a minimum grade of "C" and Reading Proficiency | 3-6 credits may be taken |
| BTX 228 | Research and Presentation Skills for the Life Sciences | 2 | Entry into this course must be approved by the program coordinator, and Reading Proficiency | |
| Choose one of the following: | | 3 | | |
| COM 101 | Oral Communication I (MOTR COMM 100) | | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | |
| COM 201 | Interpersonal Communication (MOTR COMM 120) | | Reading Proficiency | |
| COM 107 | Public Speaking (MOTR COMM 110) | | Reading Proficiency | |
| | **Credit Hours** | **13-16** | | |
| **Summer** | | | | |
| BTX 226 | Advanced Topics in Biotechnology | 3 | Concurrent or prior enrollment in BTX 219 or BIO 219 with a minimum grade of "C" and Reading Proficiency | A minimum of two Advanced Topics must be taken. Possible topics may include QPCR, Advanced Cell Culture Techniques, Bioinformatics. The third Advanced Topics may be substituted with HRT 134 Micropropagation of Plants or BIO 231 Cell Biology. |
| | **Credit Hours** | **3** | | |
| | **Total Credit Hours** | **60-63** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Part-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| BIO 140 | Principles of Biology I (MOTR BIOL 150L) | 5 | MTH 140 or MTH 140S or MTH 160S with a minimum grade of "C" or placement into MTH 160, and Reading Proficiency | Gateway Course, Critical Course |
| BTX 104 | Basic Laboratory Methods for Biotechnology | 3 | Placement into MTH 140 or higher or completion of MTH 140S with a minimum grade of "C", and Reading Proficiency | Gateway Course, Exploratory Course, Critical Course |
| | **Credit Hours** | **8** | | |
| **Spring** | | | | |
| BTX 152 | Quantitative Methods in Biotechnology | 2 | Placement into MTH 140 or completion of MTH 140S with a minimum grade of "C" or better, CHM 101 with a minimum grade of "C" or one year of high school chemistry, and Reading Proficiency | |
| MTH 160 | Precalculus Algebra (MOTR MATH 130) | 3 | MTH 140 (or MTH 140S) with a minimum grade of "C" or satisfactory score on placement test, and Reading Proficiency | |
| Choose one of the following: | | 3 | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| ENG 102 | College Composition II (MOTR ENGL 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **8** | | |
| **Summer** | | | | |
| CHM 105 | General Chemistry I (MOTR CHEM 150L) | 5 | MTH 140 (or MTH 140S or at least one and a half years of high school algebra) and CHM 101 with a minimum grade of "C" or one year of high school chemistry, and Reading Proficiency | |
| | **Credit Hours** | **5** | | |

| | | | | |
|---|---|---|---|---|
| **Second Year** | | | | |
| **Fall** | | | | |
| BIO 225 | Genetics | 3 | BIO 140 with a minimum grade of "C" and Reading Proficiency | |
| BIO 235 | Genetics Laboratory | 2 | BIO 140 with a minimum grade of "C", concurrent or prior enrollment in BIO 225 with a minimum grade of "C", and Reading Proficiency | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | |
| | **Credit Hours** | **8** | | |
| **Spring** | | | | |
| BTX 219 | Biotechnology I | 5 | BTX 104 or BIO 104 with a minimum grade of "C", BIO 140 with a minimum grade of "C", and Reading Proficiency | |
| BTX 226 | Advanced Topics in Biotechnology | 3 | Concurrent or prior enrollment in BTX 219 or BIO 219 with a minimum grade of "C" and Reading Proficiency | A minimum of two Advanced Topics must be taken. Possible topics may include QPCR, Advanced Cell Culture Techniques, Bioinformatics. The third Advanced Topics may be substituted with HRT 134 Micropropagation of Plants or BIO 231 Cell Biology. |
| | **Credit Hours** | **8** | | |
| **Summer** | | | | |
| BTX 226 | Advanced Topics in Biotechnology | 3 | Concurrent or prior enrollment in BTX 219 or BIO 219 with a minimum grade of "C" and Reading Proficiency | A minimum of two Advanced Topics must be taken. Possible topics may include QPCR, Advanced Cell Culture Techniques, Bioinformatics. The third Advanced Topics may be substituted with HRT 134 Micropropagation of Plants or BIO 231 Cell Biology. |
| | **Credit Hours** | **3** | | |
| **Third Year** | | | | |
| **Fall** | | | | |
| BTX 218 | Microbiology for Biotechnology | 4 | BIO 140 and CHM 105 with minimum grades of "C" and Reading Proficiency | |
| BTX 226 | Advanced Topics in Biotechnology | 3 | Concurrent or prior enrollment in BTX 219 or BIO 219 with a minimum grade of "C" and Reading Proficiency | A minimum of two Advanced Topics must be taken. Possible topics may include QPCR, Advanced Cell Culture Techniques, Bioinformatics. The third Advanced Topics may be substituted with HRT 134 Micropropagation of Plants or BIO 231 Cell Biology. |
| | **Credit Hours** | **7** | | |
| **Spring** | | | | |
| BTX 220 | Biotechnology II | 5 | BTX 219 or BIO 219 with a minimum grade of "C" and Reading Proficiency | |
| BTX 221 | Workplace Learning: Biotechnology | 3-6 | Concurrent or prior enrollment in BTX 220 or BIO 220 with a minimum grade of "C" and Reading Proficiency | 3-6 credits may be taken |

| | | | | |
|---|---|---|---|---|
| BTX 228 | Research and Presentation Skills for the Life Sciences | 2 | Entry into this course must be approved by the program coordinator, and Reading Proficiency | |
| | **Credit Hours** | **10-13** | | |
| **Summer** | | | | |
| Choose one of the following: | | 3 | | |
| COM 101 | Oral Communication I (MOTR COMM 100) | | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | |
| COM 201 | Interpersonal Communication (MOTR COMM 120) | | Reading Proficiency | |
| COM 107 | Public Speaking (MOTR COMM 110) | | Reading Proficiency | |
| | **Credit Hours** | **3** | | |
| | **Total Credit Hours** | **60-63** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Articulation Agreements

Articulation agreements are formal partnerships between St. Louis Community College and colleges or universities that outline how completed coursework transfers toward a specific degree program. These agreements help students continue their education by ensuring the credits earned at STLCC apply toward bachelor's degree requirements at the partner institution. STLCC continually collaborates with colleges and universities to establish new agreements that support a smooth transfer process.

Below is a list of current partner institutions with active articulation agreements for the Associate in Applied Science - Biotechnology. If a program does not have a linked plan available, students should meet with an academic advisor to obtain the appropriate plan and guidance.

## Lindenwood University

- Biology, Bachelor of Science

## Webster University

- Biological Sciences, Research, and Technology, Bachelor of Science

# Biotechnology: CP

**Certificate of Proficiency | 32 credit hours minimum**

**School of Science, Technology, Engineering, and Math (STEM)**

**Program Website (https://stlcc.edu/programs-academics/pathways/s-t-e-m/biotechnology/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

## Program Description:

The Certificate of Proficiency in Biotechnology is a specialized training for students to assist with employment as biotechnicians. The certificate will assist with engagement in research and development, quality control, biomanufacturing, and bioprocessing. All students in this field of study are required to complete the core biotechnology/science courses. The completion of this program provides the knowledge and hands-on skills necessary to work in a life science research workplace.

**Location.** This program is offered in its entirety at Florissant Valley.

**Related Programs.** The Biotechnology Department offers an associate in the following area:

- **Biotechnology, Associate in Applied Science (p. 101)**

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

## At the completion of the program, students are expected to:

1. describe experimental procedures and conclusions.
2. perform Good Documentation Practices from which data analysis, project decisions, and successive experimental designs are achieved.
3. apply recombinant DNA technology techniques focusing from DNA to protein, and inheritance of genetic information.
4. adhere to laboratory standards including use of Personal Protective Equipment, documentation and organization and cleanliness in the workspace.
5. collaborate within a team environment.
6. design experiments using basic molecular biology methodologies with proper controls and anticipated results defined.
7. perform experiments using basic molecular biology methodologies such as separation of macromolecules through electrophoretic techniques, polymerase chain reaction, cell culture, recombinant DNA techniques, and protein expression/purification.
8. assess the contributions of biotechnology to advances in the fields of agriculture and human health.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Program Requirements** | | |
| CHM 105 | General Chemistry I (MOTR CHEM 150L) | 5 |
| BTX 104 | Basic Laboratory Methods for Biotechnology | 3 |
| BIO 140 | Principles of Biology I (MOTR BIOL 150L) | 5 |
| BTX 219 | Biotechnology I | 5 |
| BTX 220 | Biotechnology II | 5 |
| BTX 221 | Workplace Learning: Biotechnology | 3-6 |
| BTX 226 | Advanced Topics in Biotechnology (two sections required) | 3 |
| BTX 226 | Advanced Topics in Biotechnology (two sections required) | 3 |
| **Total Credit Hours** | | **32-35** |

# Academic Plan

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| CHM 105 | General Chemistry I (MOTR CHEM 150L) | 5 | MTH 140 (or MTH 140S or at least one and a half years of high school algebra) and CHM 101 with a minimum grade of "C" or one year of high school chemistry, and Reading Proficiency | |
| BIO 140 | Principles of Biology I (MOTR BIOL 150L) | 5 | MTH 140 or MTH 140S or MTH 160S with a minimum grade of "C" or placement into MTH 160, and Reading Proficiency | Gateway Course and Critical Course |
| BTX 104 | Basic Laboratory Methods for Biotechnology | 3 | Placement into MTH 140 or higher or completion of MTH 140S with a minimum grade of "C", and Reading Proficiency | Exploratory Course, Gateway Course, Critical Course |
| | **Credit Hours** | **13** | | |
| **Spring** | | | | |
| BTX 219 | Biotechnology I | 5 | BTX 104 or BIO 104 with a minimum grade of "C", BIO 140 with a minimum grade of "C", and Reading Proficiency | |
| BTX 226 | Advanced Topics in Biotechnology | 3 | Concurrent or prior enrollment in BTX 219 or BIO 219 with a minimum grade of "C" and Reading Proficiency | |
| BTX 226 | Advanced Topics in Biotechnology | 3 | Concurrent or prior enrollment in BTX 219 or BIO 219 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **11** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| BTX 220 | Biotechnology II | 5 | BTX 219 or BIO 219 with a minimum grade of "C" and Reading Proficiency | |
| BTX 221 | Workplace Learning: Biotechnology | 3-6 | Concurrent or prior enrollment in BTX 220 or BIO 220 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **8-11** | | |
| | **Total Credit Hours** | **32-35** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Part-Time Academic Plan

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| BTX 104 | Basic Laboratory Methods for Biotechnology | 3 | Placement into MTH 140 or higher or completion of MTH 140S with a minimum grade of "C", and Reading Proficiency | Exploratory Course, Gateway Course, Critical Course |
| BIO 140 | Principles of Biology I (MOTR BIOL 150L) | 5 | MTH 140 or MTH 140S or MTH 160S with a minimum grade of "C" or placement into MTH 160, and Reading Proficiency | Gateway Course |
| | **Credit Hours** | **8** | | |
| **Spring** | | | | |
| BTX 219 | Biotechnology I | 5 | BTX 104 or BIO 104 with a minimum grade of "C", BIO 140 with a minimum grade of "C", and Reading Proficiency | |
| BTX 226 | Advanced Topics in Biotechnology | 3 | Concurrent or prior enrollment in BTX 219 or BIO 219 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **8** | | |
| **Summer** | | | | |
| CHM 105 | General Chemistry I (MOTR CHEM 150L) | 5 | MTH 140 (or MTH 140S or at least one and a half years of high school algebra) and CHM 101 with a minimum grade of "C" or one year of high school chemistry, and Reading Proficiency | |
| | **Credit Hours** | **5** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| BTX 220 | Biotechnology II | 5 | BTX 219 or BIO 219 with a minimum grade of "C" and Reading Proficiency | |
| BTX 221 | Workplace Learning: Biotechnology | 3-6 | Concurrent or prior enrollment in BTX 220 or BIO 220 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **8-11** | | |
| **Spring** | | | | |
| BTX 226 | Advanced Topics in Biotechnology | 3 | Concurrent or prior enrollment in BTX 219 or BIO 219 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **3** | | |
| | **Total Credit Hours** | **32-35** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Business Administration: AA

**Associate in Arts | 61 credit hours minimum**

**School of Business and Computer Information Technology**

**Program Website (https://stlcc.edu/programs-academics/pathways/b-m-c-a-h/business-administration/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

The Associate in Arts in Business Administration degree program meets the general education requirements (42 MOTR Credits), and, offers a seamless transfer into business programs at four-year colleges and universities. This program provides students the opportunity to complete the first two years of study toward a bachelor's degree in business or a business related field.

**Locations.** This program is offered in its entirety at Meramec and Online. Students may be able to complete the program at Florissant Valley, Forest Park, and Wildwood by taking a mixture of face-to-face and online courses.

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. explore and integrate ideas and concepts from diverse fields of academic study to further academic, personal, and professional inquiry.
2. use quantitative and qualitative skills to define problems, and communication skills to propose solutions.
3. identify and apply contributions from a range of academic disciplines to conceptualize and explain enduring and contemporary business issues.
4. analyze the ethical implications of choices that reflect cultural, religious, economic, or historic perspectives or experiences.
5. explain how the primary functions of business interact to achieve organizational goals.
6. analyze and apply internal and external sources of data to propose solutions for strategic decision making.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **General Education** | | |
| Written Communications | | 6 |
| Oral Communications | | 3 |
| ECO 151 | Principles of Macroeconomics (MOTR ECON 101) | 3 |
| ECO 152 | Principles of Microeconomics (MOTR ECON 102) | 3 |

| | | |
|---|---|---|
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 |
| **Select one of the following math courses:** | | **3-4** |
| MTH 160 | Precalculus Algebra (MOTR MATH 130) (or MTH 160S) | |
| MTH 186 | Survey of Calculus (or higher) | |
| XXX xxx | Humanities and Fine Arts Electives (p. 416) [1] | 9 |
| XXX xxx | Natural Sciences Electives with MOTR designation (one lab course required) (p. 416) [2] | 7 |
| XXX xxx | CORE 42 Elective (any course to reach 42 MOTR credits) (p. 416) | 5 |
| Choose from the following: | | |
| MTH 186 or higher is strongly recommended (excluding any math course taken to meet program requirements); or, | | |
| Course(s) designated with a MOTR number | | |
| **Program Requirements** | | |
| ACC 110 | Financial Accounting | 4 |
| ACC 114 | Managerial Accounting | 3 |
| BUS 104 | Introduction to Business Administration | 3 |
| BUS 201 | Elementary Business Statistics (Recommended) | 3 |
| or MTH 180 | Introductory Statistics (MOTR MATH 110) | |
| **Electives** | | |
| Select 2 of the following: | | 6 |
| BLW 101 | Business Law [3] | |
| or BLW 201 | Legal Environment of Business | |
| FIN 201 | Fundamentals of Finance [3] | |
| IB 100 | International Business [3] | |
| IS 116 | Computer Literacy [3] | |
| MGT 204 | Business Organization and Management [3] | |
| MKT 203 | Principles of Marketing [3] | |
| **Total Credit Hours** | | **61-62** |

1 There is a limit of three (3) credit hours of Performance courses that can be applied to the Humanities and Fine Arts Knowledge Area and to the total CORE 42. Students must complete nine (9) credit hours from at least two (2) different disciplines.

2 Students must complete seven (7) credit hours from at least two (2) different disciplines. One course must contain a laboratory component.

3 Students are encouraged to check with an advisor at the transferring institution to determine if these credits will transfer.

# Full-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| XXX xxx | Oral Communications (p. 416) | 3 | | COM 101 or COM 107 is recommended. |
| Choose one of the following: | | 3-4 | | |

| | | | | |
|---|---|---|---|---|
| MTH 160 | Precalculus Algebra (MOTR MATH 130) [1] | | MTH 140 (or MTH 140S) with a minimum grade of "C" or satisfactory score on placement test, and Reading Proficiency | MTH 160S will also apply but only 3 credit hours will apply to the degree. |
| MTH 186 | Survey of Calculus | | MTH 160 or MTH 160S with grade of "C" or better and Reading Proficiency | Mathematics courses above MTH 186 may also apply toward the mathematics requirement. |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | HST 101 or HST 102 is recommended. |
| BUS 104 | Introduction to Business Administration | 3 | Reading Proficiency | Exploratory Course, Gateway Course, Critical Course |
| | **Credit Hours** | **15-16** | | |
| **Spring** | | | | |
| ENG 102 | College Composition II (MOTR ENGL 200) | 3 | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| ECO 151 | Principles of Macroeconomics (MOTR ECON 101) | 3 | Concurrent enrollment in MTH 140S, or placement into MTH 140, MTH 160 or MTH 185, and Reading Proficiency | |
| XXX xxx | Natural Science course with MOTR designation (p. 416) | 3 | | One science course must include a lab. Check with transfer school for best option. |
| ACC 110 | Financial Accounting | 4 | ACC 100 with a minimum grade of "C" or a high school accounting course or department approval, and Reading Proficiency | |
| XXX xxx | Humanities & Fine Arts elective with MOTR designation (p. 416) | 3 | | Check with transfer school for best option. |
| | **Credit Hours** | **16** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| ECO 152 | Principles of Microeconomics (MOTR ECON 102) | 3 | Concurrent enrollment in MTH 140S, or placement into MTH 140, MTH 160, or MTH 185, and Reading Proficiency | |
| XXX xxx | Humanities & Fine Arts elective with MOTR designation (p. 416) | 3 | | Check with transfer school for best option. |
| ACC 114 | Managerial Accounting | 3 | ACC 110 with minimum grade of "C" and Reading Proficiency | |
| Choose one of the following: | | 3 | | |
| BUS 201 | Elementary Business Statistics | | MTH 160 with a minimum grade of "C" or MTH 185 or higher with a minimum grade of "C" and Reading Proficiency | |
| MTH 180 | Introductory Statistics (MOTR MATH 110) | | Satisfactory scores on placement test, and Reading Proficiency | |
| XXX xxx | Natural Science course with MOTR designation (p. 416) | 4 | | One science course must include a lab. Check with transfer school for best option. |
| | **Credit Hours** | **16** | | |
| **Spring** | | | | |
| XXX xxx | Humanities & Fine Arts elective with MOTR designation (p. 416) | 3 | | Check with transfer school for best option. |
| XXX xxx | Any course with MOTR designation (p. 416) | 5 | | MTH 186 is highly recommended. |

| | | | | |
|---|---|---|---|---|
| XXX xxx | Approved Business Elective | 3 | | See approved elective option below. Check with transfer school for best option. |
| XXX xxx | Approved Business Elective | 3 | | See approved elective option below. Check with transfer school for best option. |
| | **Credit Hours** | **14** | | |
| | **Total Credit Hours** | **61-62** | | |

# Approved Business Electives

| Code | Title | Credit Hours |
|---|---|---|
| BLW 101 | Business Law | 3 |
| or BLW 201 | Legal Environment of Business | |
| FIN 201 | Fundamentals of Finance | 3 |
| IB 100 | International Business | 3 |
| IS 116 | Computer Literacy | 3 |
| MGT 204 | Business Organization and Management | 3 |
| MKT 203 | Principles of Marketing | 3 |

[1] The following math courses do not apply towards the mathematics requirement: MTH 161, MTH 161S, MTH 166, MTH 170, MTH 180, MTH 180S, and MTH 185.

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Focus Areas

These focus areas are intended for students who plan to transfer to the University of Missouri - St. Louis (UMSL), after completion of their associate's degree at St. Louis Community College. Your official degree that you will be pursuing at St. Louis Community College within these focus areas is the Associate in Arts - Business Administration.

- **Focus Area: Accounting (p. 115)**
- **Focus Area: Business**

# Articulation Agreements

Articulation agreements are formal partnerships between St. Louis Community College and colleges or universities that outline how completed coursework transfers toward a specific degree program. These agreements help students continue their education by ensuring the credits earned at STLCC apply toward bachelor's degree requirements at the partner institution. STLCC continually collaborates with colleges and universities to establish new agreements that support a smooth transfer process.

Below is a list of current partner institutions with active articulation agreements for the Associate in Arts in Business Administration. If a program does not have a linked plan available, students should meet with an academic advisor to obtain the appropriate plan and guidance.

## University of Missouri - Columbia

- Business Administration, Bachelor of Science

# Focus Area: Accounting

This focus area is intended for students who plan to major in Accounting at a 4-year college or university, after completion of their associate's degree at St. Louis Community College. Your official degree that you will be pursuing at St. Louis Community College with this plan is the **Associate in Arts - Business Administration (p. 111)**.

# Focus Area: Accounting Full-Time Academic Plan

This academic plan is a recommended sequence for this pathway. It serves as **a general guideline** to help you build a course schedule each term that supports your timely completion. The College has made every effort to ensure its accuracy**.** However, **the map is not a substitute for academic advisement—contact your advisor if you have any questions about your degree requirements.**

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | This fulfills part of the written communications requirement. |
| COM 107 | Public Speaking (MOTR COMM 110) | 3 | Reading Proficiency | This fulfills the oral communication requirement. |
| MTH 160 | Precalculus Algebra (MOTR MATH 130) | 3 | MTH 140 (or MTH 140S) with a minimum grade of "C" or satisfactory score on placement test, and Reading Proficiency | This fulfills the mathematics requirement. |
| BUS 104 | Introduction to Business Administration | 3 | Reading Proficiency | Exploratory Course, Gateway Course, Critical Course. This is a program requirement. |
| XXX xxx | Humanities and Fine Arts Elective | 3 | | See recommendations listed below. Must be from 2 different disciplines. |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| ENG 102 | College Composition II (MOTR ENGL 200) | 3 | ENG 101 with a minimum grade of "C" and Reading Proficiency | This fulfills part of the written communications requirement. |
| Choose one of the following: | | 3 | | This is a program requirement. |
| ECO 151 | Principles of Macroeconomics (MOTR ECON 101) | | Concurrent enrollment in MTH 140S, or placement into MTH 140, MTH 160 or MTH 185, and Reading Proficiency | |
| ECO 152 | Principles of Microeconomics (MOTR ECON 102) | | Concurrent enrollment in MTH 140S, or placement into MTH 140, MTH 160, or MTH 185, and Reading Proficiency | |
| MTH 180 | Introductory Statistics (MOTR MATH 110) | 3 | Satisfactory scores on placement test, and Reading Proficiency | This is a program requirement. |
| XXX xxx | Humanities and Fine Arts Elective | 3 | | See recommendations listed below. Must be from 2 different disciplines. |

| | | | | |
|---|---|---|---|---|
| XXX xxx | Humanities and Fine Arts Elective | 3 | | See recommendations listed below. Must be from 2 different disciplines. |
| | **Credit Hours** | **15** | | |
| **Summer** | | | | |
| MCE 100 | Missouri Civics Examination | 0 | | |
| Choose one of the following: | | 3 | | This fulfills the civics requirement. |
| HST 101 | United States History to 1865 (MOTR HIST 101) | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| HST 102 | United States History from 1865 to the Present (MOTR HIST 102) | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| PSC 101 | Introduction to American Politics (MOTR POSC 101) | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| | **Credit Hours** | **3** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| XXX xxx | Natural Science Elective | 4 | | See recommendations listed below. Must be from 2 different disciplines. 1 course must be a lab. |
| Choose one of the following: | | 3 | | This is a program requirement. |
| ECO 151 | Principles of Macroeconomics (MOTR ECON 101) | | Concurrent enrollment in MTH 140S, or placement into MTH 140, MTH 160 or MTH 185, and Reading Proficiency | |
| ECO 152 | Principles of Microeconomics (MOTR ECON 102) | | Concurrent enrollment in MTH 140S, or placement into MTH 140, MTH 160, or MTH 185, and Reading Proficiency | |
| ACC 110 | Financial Accounting | 4 | ACC 100 with a minimum grade of "C" or a high school accounting course or department approval, and Reading Proficiency | This is a program requirement. |
| Choose one of the following: | | 3-4 | | This fulfills part of the CORE 42 elective. |
| PSY 200 | General Psychology (MOTR PSYC 100) | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| MTH 177 | Finite Mathematics | | MTH 160, MTH 160A, MTH 160B, MTH 160C, or MTH 160S with grade of "C" or better and Reading Proficiency | |
| | **Credit Hours** | **14-15** | | |
| **Spring** | | | | |
| XXX xxx | Natural Science Elective | 3 | | See recommendations listed below. Must be from 2 different disciplines. One course must be a lab. |
| ACC 114 | Managerial Accounting | 3 | ACC 110 with minimum grade of "C" and Reading Proficiency | This is a program requirement. |
| XXX xxx | Business Elective | 3 | | See options listed below. |
| XXX xxx | Business Elective | 3 | | See options listed below. |
| Choose one of the following: | | 3-4 | | This fulfills part of the CORE 42 elective. |
| PSY 200 | General Psychology (MOTR PSYC 100) | | Reading Proficiency or concurrent enrollment in RDG 079 | |

| | | | | |
|---|---|---|---|---|
| MTH 177 | Finite Mathematics | | MTH 160, MTH 160A, MTH 160B, MTH 160C, or MTH 160S with grade of "C" or better and Reading Proficiency | |
| | **Credit Hours** | **15-16** | | |
| | **Total Credit Hours** | **62-64** | | |

# Humanities and Fine Arts Electives

| Code | Title | Credit Hours |
|---|---|---|
| **MOTR ARTS Discipline** | | |
| ART 100 | Art Appreciation (MOTR ARTS 100) | 3 |
| ART 101 | Art History - Prehistory to 1300 (MOTR ARTS 101) | 3 |
| ART 102 | Art History - 1300 to Present (MOTR ARTS 102) | 3 |
| **MOTR LITR Discipline** | | |
| ENG 217 | Major Black Writers (MOTR LITR 105AA) | 3 |
| ENG 231 | World Literature (MOTR LITR 200) | 3 |
| **MOTR PHIL Discipline** | | |
| PHL 102 | Introduction to Logic (MOTR PHIL 101) | 3 |
| PHL 112 | Business Ethics (MOTR PHIL 102P) | 3 |
| **MOTR RELG Discipline** | | |
| PHL 103 | World Religions (MOTR RELG 100) | 3 |

# Natural Science Electives

| Code | Title | Credit Hours |
|---|---|---|
| **Natural Sciences Lab** | | |
| **MOTR BIOL Discipline** | | |
| BIO 110 | General Zoology (MOTR BIOL 100LZ) | 4 |
| BIO 111 | Introductory Biology (MOTR BIOL 100L) | 4 |
| BIO 124 | General Botany I (MOTR BIOL 100LB) | 4 |
| MOTR CHEM Discipline | | |
| CHM 109 | Chemistry and the Environment (MOTR CHEM 100L) | 4 |
| **MOTR LIFS Discipline** | | |
| BIO 106 | Human Heredity (MOTR LIFS 100LG) | 4 |
| **MOTR PHYS Discipline** | | |
| PSI 125 | Introduction to Atmospheric Science (MOTR PHYS 110LAS) | 4 |
| **Natural Sciences Non-Lab** | | |
| **MOTR ASTR Discipline** | | |
| PSI 111 | Introduction to Astronomy I (MOTR ASTR 100) | 3 |
| **MOTR BIOL Discipline** | | |
| BIO 113 | Modern Aspects of Biology (MOTR BIOL 100) | 3 |
| BIO 117 | Conservation and Ecology (MOTR BIOL 100EC) | 3 |
| **MOTR LIFS Discipline** | | |
| BIO 109 | Human Biology (MOTR LIFS 100) | 3 |
| **MOTR GEOG Discipline** | | |
| GEG 103 | Physical Geography (MOTR GEOG 100) | 3 |
| **MOTR PHYS Discipline** | | |
| GEO 100 | Earth Science (MOTR PHYS 110ES) | 3 |
| PSI 101 | Physical Science (MOTR PHYS 110) | 3 |

## Business Electives

| Code | Title | Credit Hours |
|---|---|---|
| BLW 201 | Legal Environment of Business [1] | 3 |
| or BLW 101 | Business Law | |
| IS 116 | Computer Literacy [1] | 3 |
| MGT 204 | Business Organization and Management | 3 |
| MKT 203 | Principles of Marketing | 3 |
| IB 100 | International Business | 3 |
| FIN 201 | Fundamentals of Finance | 3 |

[1] BLW 201 and IS 116 are highly recommended.

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Focus Area: Business

This focus area is intended for students who plan to major in Business at a 4-year college or university, after completion of their associate's degree at St. Louis Community College. Your official degree that you will be pursuing at St. Louis Community College with this plan is the **Associate in Arts - Business Administration (p. 111)**.

# Focus Area: Business Full-Time Academic Plan

This academic plan is a recommended sequence for this pathway. It serves as **a general guideline** to help you build a course schedule each term that supports your timely completion. The College has made every effort to ensure its accuracy**.** However, **the map is not a substitute for academic advisement—contact your advisor if you have any questions about your degree requirements.**

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | This fulfills part of the written communications requirement. |
| Choose one of the following: | | 3 | | This fulfills the oral communication requirement. |

| | | | | |
|---|---|---|---|---|
| COM 101 | Oral Communication I (MOTR COMM 100) | | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | |
| COM 107 | Public Speaking (MOTR COMM 110) | | Reading Proficiency | |
| MTH 160 | Precalculus Algebra (MOTR MATH 130) | 3 | MTH 140 (or MTH 140S) with a minimum grade of "C" or satisfactory score on placement test, and Reading Proficiency | This fulfills the mathematics requirement. |
| BUS 104 | Introduction to Business Administration | 3 | Reading Proficiency | Exploratory Course, Gateway Course, Critical Course. This is a program requirement. |
| XXX xxx | Humanities and Fine Arts Elective | 3 | | See suggestions listed below. Must be 2 different disciplines. |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| ENG 102 | College Composition II (MOTR ENGL 200) | 3 | ENG 101 with a minimum grade of "C" and Reading Proficiency | This fulfills part of the written communications requirement. |
| Choose one of the following: | | 3 | | This is a program requirement. |
| ECO 151 | Principles of Macroeconomics (MOTR ECON 101) | | Concurrent enrollment in MTH 140S, or placement into MTH 140, MTH 160 or MTH 185, and Reading Proficiency | |
| ECO 152 | Principles of Microeconomics (MOTR ECON 102) | | Concurrent enrollment in MTH 140S, or placement into MTH 140, MTH 160, or MTH 185, and Reading Proficiency | |
| MTH 186 | Survey of Calculus | 4 | MTH 160 or MTH 160S with grade of "C" or better and Reading Proficiency | This fulfills part of the CORE 42 elective. |
| XXX xxx | Humanities and Fine Arts Elective | 3 | | See suggestions listed below. Must be 2 different disciplines. |
| | **Credit Hours** | **13** | | |
| **Summer** | | | | |
| MCE 100 | Missouri Civics Examination | 0 | | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | This fulfills the civics requirement. |
| | **Credit Hours** | **3** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| XXX xxx | Natural Science Elective | 3 | | Science must be from two different disciplines. One course must be a lab. See suggestions listed below. |
| Choose one of the following: | | 3 | | This is a program requirement. |
| ECO 151 | Principles of Macroeconomics (MOTR ECON 101) | | Concurrent enrollment in MTH 140S, or placement into MTH 140, MTH 160 or MTH 185, and Reading Proficiency | |
| ECO 152 | Principles of Microeconomics (MOTR ECON 102) | | Concurrent enrollment in MTH 140S, or placement into MTH 140, MTH 160, or MTH 185, and Reading Proficiency | |
| ACC 110 | Financial Accounting | 4 | ACC 100 with a minimum grade of "C" or a high school accounting course or department approval, and Reading Proficiency | This is a program requirement. |
| XXX xxx | Business Elective | 3 | | See elective option below. |

| | | | | |
|---|---|---|---|---|
| XXX xxx | Humanities and Fine Arts Elective | 3 | | See suggestions listed below. Must be 2 different disciplines. |
| | **Credit Hours** | **16** | | |
| **Spring** | | | | |
| MTH 180 | Introductory Statistics (MOTR MATH 110) | 3 | Satisfactory scores on placement test, and Reading Proficiency | This is a program requirement. |
| XXX xxx | Natural Science Elective | 4 | | Science must be from two different disciplines. One course must be a lab. See suggestions listed below. |
| ACC 114 | Managerial Accounting | 3 | ACC 110 with minimum grade of "C" and Reading Proficiency | This is a program requirement. |
| XXX xxx | Business Elective | 3 | | See elective option below. |
| XXX xxx | CORE 42 Elective | 1 | | |
| | **Credit Hours** | **14** | | |
| | **Total Credit Hours** | **61** | | |

# Suggested Natural Science Electives

| Code | Title | Credit Hours |
|---|---|---|
| **Lab Natural Science** | | |
| **MOTR BIOL Discipline** | | |
| BIO 110 | General Zoology (MOTR BIOL 100LZ) | 4 |
| BIO 111 | Introductory Biology (MOTR BIOL 100L) | 4 |
| BIO 124 | General Botany I (MOTR BIOL 100LB) | 4 |
| **MOTR CHEM Discipline** | | |
| CHM 109 | Chemistry and the Environment (MOTR CHEM 100L) | 4 |
| **MOTR LIFS Discipline** | | |
| BIO 106 | Human Heredity (MOTR LIFS 100LG) | 4 |
| **MOTR PHYS Discipline** | | |
| PSI 125 | Introduction to Atmospheric Science (MOTR PHYS 110LAS) | 4 |
| **Non-Lab Natural Science** | | |
| **MOTR ASTR Discipline** | | |
| PSI 111 | Introduction to Astronomy I (MOTR ASTR 100) | 3 |
| **MOTR BIOL Discipline** | | |
| BIO 113 | Modern Aspects of Biology (MOTR BIOL 100) | 3 |
| BIO 117 | Conservation and Ecology (MOTR BIOL 100EC) | 3 |
| **MOTR LIFS Discipline** | | |
| BIO 109 | Human Biology (MOTR LIFS 100) | 3 |
| **MOTR GEOG Discipline** | | |
| GEG 103 | Physical Geography (MOTR GEOG 100) | 3 |
| **MOTR PHYS Discipline** | | |
| GEO 100 | Earth Science (MOTR PHYS 110ES) | 3 |
| PSI 101 | Physical Science (MOTR PHYS 110) | 3 |

# Suggested Humanities and Fine Arts Electives

| Code | Title | Credit Hours |
|---|---|---|
| **MOTR ARTS Discipline** | | |
| ART 100 | Art Appreciation (MOTR ARTS 100) | 3 |
| ART 101 | Art History - Prehistory to 1300 (MOTR ARTS 101) | 3 |
| ART 102 | Art History - 1300 to Present (MOTR ARTS 102) | 3 |

| | | |
|---|---|---|
| **MOTR LITR Discipline** | | |
| ENG 217 | Major Black Writers (MOTR LITR 105AA) | 3 |
| ENG 231 | World Literature (MOTR LITR 200) | 3 |
| **MOTR PHIL Discipline** | | |
| PHL 102 | Introduction to Logic (MOTR PHIL 101) | 3 |
| PHL 112 | Business Ethics (MOTR PHIL 102P) | 3 |
| **MOTR RELG Discipline** | | |
| PHL 103 | World Religions (MOTR RELG 100) | 3 |

## Business Electives

| Code | Title | Credit Hours |
|---|---|---|
| BLW 201 | Legal Environment of Business [1] | 3 |
| or BLW 101 | Business Law | |
| FIN 201 | Fundamentals of Finance | 3 |
| IB 100 | International Business | 3 |
| IS 116 | Computer Literacy [1] | 3 |
| MGT 204 | Business Organization and Management | 3 |
| MKT 203 | Principles of Marketing | 3 |

[1] BLW 201 and IS 116 are highly recommended.

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Cannabis and Hemp Production: CS

**Certificate of Specialization | 13 credit hours minimum**

**School of Science, Technology, Engineering, and Math (STEM)**

**Program Website (https://stlcc.edu/pathways/stem/cannabis-hemp-production/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

The Certificate of Specialization in Cannabis and Hemp Production affords students the opportunity to learn the specialized processes necessary to grow, manage, and cultivate cannabis and hemp plants using industrial hemp in accordance with state and federal laws. The certificate will equip students with the knowledge necessary to gain employment in this growing segment of the agriculture and horticulture industries.

**Locations.** This program is offered in its entirety at Meramec.

**Related Programs.** The Horticulture Department offers an associate and a certificate in the following areas:

- **Horticulture, Associate in Applied Science (p. 266)**
- **Horticulture, Certificate of Proficiency (p. 270)**

**Financial Aid.** This Certificate of Specialization is not eligible for financial aid.

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. demonstrate the methods of propagating cannabis and hemp.
2. implement Best Management Practices (BMP) in a greenhouse production setting.
3. implement Integrated Pest Management (IPM) solutions to cannabis and hemp plants in a greenhouse setting.
4. create a growing plan for cannabis and hemp production.
5. describe the vegetative and flowering growth stages of cannabis and hemp.
6. identify the different uses for synthetic and biological products.
7. use flow hoods to maintain sterility of the product.
8. determine relative levels of different cannabinoids and potential chemical contaminants.
9. perform solvent-based, solventless, and modern extraction methods.
10. synthesize the different types of products that can be produced in a laboratory.

# Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Program Requirements** | | |
| HRT 101 | Introductory Horticulture | 4 |
| or BIO 124 | General Botany I (MOTR BIOL 100LB) | |
| HRT 135 | Introduction to Cannabis | 3 |
| HRT 136 | Cannabis and Hemp Cultivation | 3 |
| HRT 137 | Laboratory Methods for Cannabis Extraction | 3 |
| **Total Credit Hours** | | **13** |

# Part-Time Academic Plan

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| HRT 101<br>or BIO 124 | Introductory Horticulture<br>or General Botany I (MOTR BIOL 100LB) | 4 | Reading Proficiency or concurrent enrollment in RDG 079 | Exploratory Course, Gateway Course, Critical Course |
| HRT 135 | Introduction to Cannabis | 3 | Concurrent or prior enrollment in HRT 101 or BIO 124 with a minimum grade of "C", and Reading Proficiency | Gateway Course, Critical Course |
| | **Credit Hours** | **7** | | |
| **Spring** | | | | |
| HRT 136 | Cannabis and Hemp Cultivation | 3 | Prior or concurrent enrollment in HRT 135 with a minimum grade of "C" and Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| HRT 137 | Laboratory Methods for Cannabis Extraction | 3 | HRT 135 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| | **Total Credit Hours** | **13** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Child and Family Development: AAS

**Associate in Applied Science | 60 credit hours minimum**

**School of Education, Public Service, and Social Sciences**

**Program Website (https://stlcc.edu/programs-academics/pathways/s-b-s-h-s-e/child-and-family-development/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

The Child and Family Development, Associate in Applied Science offers students a variety of career pathways, including Infant Toddler Studies, the study of the Exceptional Child, and Early Childhood Leadership. Students will investigate leading theories of child development and methodologies for curriculum planning, and assessment. Through class lectures, observation studies, field work with mentor teachers, service learning, and opportunities for discussion with award winning faculty, students will engage in the best practices designed for the study of young children and their families.

The Child and Family Development program is aligned with the National Association for the Education of Young Children (NAEYC) Standards for Early Childhood Professional Preparation. St. Louis Community College prepares students to work with young children from infancy through age eight.

The Associate in Applied Science (AAS) degree is a two-year program with a concentration of coursework in child development and family studies. AAS degree candidates can find employment as teachers, parent educators, community service workers, youth development program workers, administrators, program planners, managers or directors in early childhood settings. Environments for teaching young children include Head Start and Early Head Start, preschool programs, laboratory schools, elementary schools, and community child care programs. With further study, students have the possibility of a variety of career options such as those in the legal system, hospital and medical settings, government agencies, and therapy systems.

Students must earn at least a “C” in certain courses to be eligible for the associate degree. See an academic advisor or the program coordinator for details about this requirement.

**Locations.** This program is offered in its entirety at Florissant Valley and Forest Park.

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program “St. Louis Community College” and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. exhibit knowledge of child development including young children's characteristics and needs, multiple influences on development and learning, and use of knowledge to create healthy environments.
2. demonstrate knowledge of diverse family and community characteristics by developing reciprocal relationships with family and community members.
3. develop evidence of appropriate child assessments, including observation, documentation, anecdotal records, standardized developmental measures, and other assessment tools.
4. reflect on effective strategies for teaching, learning, and connecting with children and families.
5. organize content knowledge to create meaningful, individualized, and challenging curricula for young children.
6. appraise his/her role as an ethical, collaborative, knowledgeable, reflective, and informed early childhood professional and advocate.

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **General Education** | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 |
| MTH 108 | Elementary Applied Mathematics (or higher or MOTR Natural Science) | 3 |
| COM 101 | Oral Communication I (MOTR COMM 100) (or any MOTR Humanities and Fine Arts course) | 3 |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 |
| XXX xxx | MOTR Social & Behavioral Science Elective (p. 416) | 3 |
| **Program Requirements** | | |
| CFD 101 | Foundations of Child and Family Development | 3 |
| CFD 102 | Child Growth and Development | 3 |
| CFD 103 | Child Nutrition, Health, and Safety | 3 |
| CFD 104 | Creative Experiences in Early Childhood | 3 |
| CFD 106 | Cognitive Development: Language and Literacy in Early Childhood | 3 |
| CFD 107 | Family/Community Support and Engagement | 3 |
| CFD 201 | Social and Emotional Development: Guidance and Discipline | 3 |
| CFD 202 | Cognitive Development: Math, Science, and Engineering for Young Children | 3 |
| CFD 204 | Principles of Curriculum Design: Preschool | 3 |
| CFD 205 | Supervised Student Teaching Practicum: Preschool | 3 |
| CFD 207 | Societal Perspectives and Advocacy for Young Children | 3 |
| CFD 208 | Child and Family Development Capstone: Portfolio Design | 3 |
| **Select one of the following Career Tracks** | | **9** |
| **Infant Toddler Studies Track (9 Credit Hours)** | | |
| CFD 108 | Principles of Curriculum Design: Infants, Toddlers, and Two-Year-Olds | |
| CFD 109 | Supervised Student Teaching Practicum: Infants, Toddlers, and Two-Year-Olds | |
| CFD 110 | Social Emotional Supports for Infants and Toddlers | |
| **Exceptional Child Track (9 Credit Hours)** | | |
| CFD 111 | Introduction to Children with Special Needs | |
| CFD 211 | Activities for Children with Special Needs | |
| Elective: Choose 3 credit hours from CFD, EDU, BHS, or HMS | | |
| **Early Childhood Leadership Track (9 Credit Hours)** | | |
| CFD 209 | Management of Early Childhood Settings | |
| CFD 210 | Early Childhood Leadership Practicum | |
| Elective: Choose 3 credit hours from CFD, IT, BUS | | |
| **Total Credit Hours** | | **60** |

# Early Childhood Leadership Track Fall Start Academic Plan (Florissant Valley Only)

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| CFD 101 | Foundations of Child and Family Development | 3 | Reading Proficiency | |
| CFD 102 | Child Growth and Development | 3 | Reading Proficiency | |
| CFD 103 | Child Nutrition, Health, and Safety | 3 | Reading Proficiency | |
| CFD 104 | Creative Experiences in Early Childhood | 3 | Reading Proficiency | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| CFD 106 | Cognitive Development: Language and Literacy in Early Childhood | 3 | CFD 101 and CFD 102 with minimum grades of "C", and Reading Proficiency | |
| CFD 107 | Family/Community Support and Engagement | 3 | Reading Proficiency | |
| CFD 201 | Social and Emotional Development: Guidance and Discipline | 3 | Reading Proficiency | |
| CFD 204 | Principles of Curriculum Design: Preschool | 3 | CFD 101 and CFD 102 with minimum grades of a "C", and Reading Proficiency | |
| Select one of the following: | | 3 | | |
| MTH 108 | Elementary Applied Mathematics (or higher) | | Reading Proficiency | |
| XXX xxx | MOTR Natural Science (p. 416) | | | |
| | **Credit Hours** | **15** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| CFD 202 | Cognitive Development: Math, Science, and Engineering for Young Children | 3 | Concurrent or prior enrollment in CFD 102 with a minimum grade of "C" and Reading Proficiency | |
| CFD 205 | Supervised Student Teaching Practicum: Preschool | 3 | CFD 101, CFD 102, CFD 104, and CFD 204 with minimum grades of "C", and Reading Proficiency | |
| CFD 207 | Societal Perspectives and Advocacy for Young Children | 3 | Reading Proficiency | |
| CFD 209 | Management of Early Childhood Settings | 3 | CFD 103 with a minimum grade of "C" and Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| CFD 210 | Early Childhood Leadership Practicum | 3 | Concurrent or prior enrollment in CFD 209 with a minimum grade of "C" and Reading Proficiency | Apply for graduation. |
| CFD 208 | Child and Family Development Capstone: Portfolio Design | 3 | Concurrent or prior enrollment in CFD 205 with a minimum grade of "C" and Reading Proficiency | |
| Select one of the following: | | 3 | | |
| XXX xxx | CFD Elective (p. 446) | | | |
| XXX xxx | BUS Elective (p. 444) | | | |
| XXX xxx | IT Elective (p. 492) | | | |
| XXX xxx | MOTR Social & Behavioral Science Elective (p. 416) | 3 | | |
| Select one of the following: | | 3 | | |
| COM 101 | Oral Communication I (MOTR COMM 100) | | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | |
| XXX xxx | MOTR Humanities and Fine Arts (p. 416) | | | |
| | **Credit Hours** | **15** | | |
| | **Total Credit Hours** | **60** | | |

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Early Childhood Leadership Track Spring Start Academic Plan (Forest Park Only)

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Spring** | | | | |
| CFD 101 | Foundations of Child and Family Development | 3 | Reading Proficiency | |
| CFD 102 | Child Growth and Development | 3 | Reading Proficiency | |
| CFD 103 | Child Nutrition, Health, and Safety | 3 | Reading Proficiency | |
| CFD 104 | Creative Experiences in Early Childhood | 3 | Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| | **Credit Hours** | **15** | | |
| **Fall** | | | | |
| CFD 106 | Cognitive Development: Language and Literacy in Early Childhood | 3 | CFD 101 and CFD 102 with minimum grades of "C", and Reading Proficiency | |
| CFD 107 | Family/Community Support and Engagement | 3 | Reading Proficiency | |
| CFD 201 | Social and Emotional Development: Guidance and Discipline | 3 | Reading Proficiency | |
| CFD 204 | Principles of Curriculum Design: Preschool | 3 | CFD 101 and CFD 102 with minimum grades of a "C", and Reading Proficiency | |
| Select one of the following: | | 3 | | |
| MTH 108 | Elementary Applied Mathematics (or higher) | | Reading Proficiency | |
| XXX xxx | MOTR Natural Science (p. 416) | | | |
| | **Credit Hours** | **15** | | |
| **Second Year** | | | | |
| **Spring** | | | | |
| CFD 202 | Cognitive Development: Math, Science, and Engineering for Young Children | 3 | Concurrent or prior enrollment in CFD 102 with a minimum grade of "C" and Reading Proficiency | |
| CFD 205 | Supervised Student Teaching Practicum: Preschool | 3 | CFD 101, CFD 102, CFD 104, and CFD 204 with minimum grades of "C", and Reading Proficiency | |
| CFD 207 | Societal Perspectives and Advocacy for Young Children | 3 | Reading Proficiency | |
| CFD 209 | Management of Early Childhood Settings | 3 | CFD 103 with a minimum grade of "C" and Reading Proficiency | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | |
| | **Credit Hours** | **15** | | |
| **Fall** | | | | |
| CFD 210 | Early Childhood Leadership Practicum | 3 | Concurrent or prior enrollment in CFD 209 with a minimum grade of "C" and Reading Proficiency | Apply for graduation. |
| CFD 208 | Child and Family Development Capstone: Portfolio Design | 3 | Concurrent or prior enrollment in CFD 205 with a minimum grade of "C" and Reading Proficiency | |
| Select one of the following: | | 3 | | |
| XXX xxx | BUS Elective (p. 444) | | | |
| XXX xxx | IT Elective (p. 492) | | | |
| XXX xxx | CFD Elective (p. 446) | | | |
| XXX xxx | MOTR Social & Behavioral Science Elective (p. 416) | 3 | | |
| Select one of the following: | | 3 | | |

| | | | | |
|---|---|---|---|---|
| XXX xxx | MOTR Humanities and Fine Arts (p. 416) | | | |
| COM 101 | Oral Communication I (MOTR COMM 100) | | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | |
| | **Credit Hours** | **15** | | |
| | **Total Credit Hours** | **60** | | |

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Exceptional Child Track Fall Start Academic Plan (Florissant Valley Only)

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| CFD 101 | Foundations of Child and Family Development | 3 | Reading Proficiency | |
| CFD 102 | Child Growth and Development | 3 | Reading Proficiency | |
| CFD 103 | Child Nutrition, Health, and Safety | 3 | Reading Proficiency | |
| CFD 104 | Creative Experiences in Early Childhood | 3 | Reading Proficiency | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| CFD 106 | Cognitive Development: Language and Literacy in Early Childhood | 3 | CFD 101 and CFD 102 with minimum grades of "C", and Reading Proficiency | |
| CFD 107 | Family/Community Support and Engagement | 3 | Reading Proficiency | |
| CFD 201 | Social and Emotional Development: Guidance and Discipline | 3 | Reading Proficiency | |
| CFD 204 | Principles of Curriculum Design: Preschool | 3 | CFD 101 and CFD 102 with minimum grades of a "C", and Reading Proficiency | |
| Select one of the following: | | 3 | | |
| XXX xxx | MOTR Natural Science (p. 416) | | | |

| | | | | |
|---|---|---|---|---|
| MTH 108 | Elementary Applied Mathematics (or higher) | | Reading Proficiency | |
| | **Credit Hours** | **15** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| CFD 202 | Cognitive Development: Math, Science, and Engineering for Young Children | 3 | Concurrent or prior enrollment in CFD 102 with a minimum grade of "C" and Reading Proficiency | |
| CFD 205 | Supervised Student Teaching Practicum: Preschool | 3 | CFD 101, CFD 102, CFD 104, and CFD 204 with minimum grades of "C", and Reading Proficiency | |
| CFD 207 | Societal Perspectives and Advocacy for Young Children | 3 | Reading Proficiency | |
| CFD 111 | Introduction to Children with Special Needs | 3 | Reading Proficiency | |
| XXX xxx | Social and Behavioral Science: Civics Requirement (p. 416) | 3 | | |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| CFD 211 | Activities for Children with Special Needs | 3 | CFD 111 with a minimum grade of "C" and Reading Proficiency | Apply for graduation. |
| CFD 208 | Child and Family Development Capstone: Portfolio Design | 3 | Concurrent or prior enrollment in CFD 205 with a minimum grade of "C" and Reading Proficiency | |
| Select one of the following: | | 3 | | |
| XXX xxx | CFD Elective (p. 446) | | | |
| XXX xxx | BHS Elective (p. 439) | | | |
| XXX xxx | HMS Elective (p. 488) | | | |
| XXX xxx | EDU Elective (p. 468) | | | |
| XXX xxx | MOTR Social & Behavioral Science Elective (p. 416) | 3 | | |
| Select one of the following: | | 3 | | |
| XXX xxx | MOTR Humanities and Fine Arts (p. 416) | | | |
| COM 101 | Oral Communication I (MOTR COMM 100) | | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | |
| | **Credit Hours** | **15** | | |
| | **Total Credit Hours** | **60** | | |

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Exceptional Child Track Spring Start Academic Plan (Forest Park Only)

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Spring** | | | | |
| CFD 101 | Foundations of Child and Family Development | 3 | Reading Proficiency | |
| CFD 102 | Child Growth and Development | 3 | Reading Proficiency | |
| CFD 103 | Child Nutrition, Health, and Safety | 3 | Reading Proficiency | |
| CFD 104 | Creative Experiences in Early Childhood | 3 | Reading Proficiency | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| | **Credit Hours** | **15** | | |
| **Fall** | | | | |
| CFD 106 | Cognitive Development: Language and Literacy in Early Childhood | 3 | CFD 101 and CFD 102 with minimum grades of "C", and Reading Proficiency | |
| CFD 107 | Family/Community Support and Engagement | 3 | Reading Proficiency | |
| CFD 201 | Social and Emotional Development: Guidance and Discipline | 3 | Reading Proficiency | |
| CFD 204 | Principles of Curriculum Design: Preschool | 3 | CFD 101 and CFD 102 with minimum grades of a "C", and Reading Proficiency | |
| Select one of the following: | | 3 | | |
| XXX xxx | MOTR Natural Science (p. 416) | | | |
| MTH 108 | Elementary Applied Mathematics (or higher) | | Reading Proficiency | |
| | **Credit Hours** | **15** | | |
| **Second Year** | | | | |
| **Spring** | | | | |
| CFD 202 | Cognitive Development: Math, Science, and Engineering for Young Children | 3 | Concurrent or prior enrollment in CFD 102 with a minimum grade of "C" and Reading Proficiency | |
| CFD 205 | Supervised Student Teaching Practicum: Preschool | 3 | CFD 101, CFD 102, CFD 104, and CFD 204 with minimum grades of "C", and Reading Proficiency | |
| CFD 207 | Societal Perspectives and Advocacy for Young Children | 3 | Reading Proficiency | |
| CFD 111 | Introduction to Children with Special Needs | 3 | Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| XXX xxx | Social and Behavioral Sciences: Civics Requirement (p. 416) | 3 | | |
| | **Credit Hours** | **15** | | |
| **Fall** | | | | |
| CFD 211 | Activities for Children with Special Needs | 3 | CFD 111 with a minimum grade of "C" and Reading Proficiency | Apply for graduation. |
| CFD 208 | Child and Family Development Capstone: Portfolio Design | 3 | Concurrent or prior enrollment in CFD 205 with a minimum grade of "C" and Reading Proficiency | |
| Select one of the following: | | 3 | | |
| XXX xxx | CFD Elective (p. 446) | | | |
| XXX xxx | BHS Elective (p. 439) | | | |
| XXX xxx | EDU Elective (p. 468) | | | |
| XXX xxx | HMS Elective (p. 488) | | | |
| XXX xxx | MOTR Social & Behavioral Science Elective (p. 416) | 3 | | |
| Select one of the following: | | 3 | | |
| XXX xxx | MOTR Humanities and Fine Arts (p. 416) | | | |
| COM 101 | Oral Communication I (MOTR COMM 100) | | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | |
| | **Credit Hours** | **15** | | |
| | **Total Credit Hours** | **60** | | |

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Infant Toddler Studies Track Fall Start Academic Plan (Florissant Valley Only)

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| CFD 101 | Foundations of Child and Family Development | 3 | Reading Proficiency | |
| CFD 102 | Child Growth and Development | 3 | Reading Proficiency | |
| CFD 103 | Child Nutrition, Health, and Safety | 3 | Reading Proficiency | |
| CFD 104 | Creative Experiences in Early Childhood | 3 | Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| CFD 106 | Cognitive Development: Language and Literacy in Early Childhood | 3 | CFD 101 and CFD 102 with minimum grades of "C", and Reading Proficiency | |
| CFD 107 | Family/Community Support and Engagement | 3 | Reading Proficiency | |
| CFD 201 | Social and Emotional Development: Guidance and Discipline | 3 | Reading Proficiency | |
| CFD 204 | Principles of Curriculum Design: Preschool | 3 | CFD 101 and CFD 102 with minimum grades of a "C", and Reading Proficiency | |
| Select one of the following: | | 3 | | |
| XXX xxx | MOTR Natural Science (p. 416) | | | |
| MTH 108 | Elementary Applied Mathematics (or higher) | | Reading Proficiency | |
| | **Credit Hours** | **15** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| CFD 202 | Cognitive Development: Math, Science, and Engineering for Young Children | 3 | Concurrent or prior enrollment in CFD 102 with a minimum grade of "C" and Reading Proficiency | |
| CFD 205 | Supervised Student Teaching Practicum: Preschool | 3 | CFD 101, CFD 102, CFD 104, and CFD 204 with minimum grades of "C", and Reading Proficiency | |
| CFD 207 | Societal Perspectives and Advocacy for Young Children | 3 | Reading Proficiency | |
| CFD 108 | Principles of Curriculum Design: Infants, Toddlers, and Two-Year-Olds | 3 | CFD 101 and CFD 102 with minimum grades of "C", and Reading Proficiency | |
| XXX xxx | Social and Behavioral Science: Civics Requirement (p. 416) | 3 | | |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| CFD 110 | Social Emotional Supports for Infants and Toddlers | 3 | CFD 101 and CFD 102 with minimum grades of "C", and Reading Proficiency | Apply for graduation. |
| CFD 109 | Supervised Student Teaching Practicum: Infants, Toddlers, and Two-Year-Olds | 3 | CFD 101, CFD 102, CFD 104, and CFD 108 with minimum grades of "C" and Reading Proficiency | |
| CFD 208 | Child and Family Development Capstone: Portfolio Design | 3 | Concurrent or prior enrollment in CFD 205 with a minimum grade of "C" and Reading Proficiency | |
| XXX xxx | MOTR Social & Behavioral Science Elective (p. 416) | 3 | | |
| Select one of the following: | | 3 | | |
| XXX xxx | MOTR Humanities and Fine Arts (p. 416) | | | |

| | | | | |
|---|---|---|---|---|
| COM 101 | Oral Communication I (MOTR COMM 100) | | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | |
| | **Credit Hours** | **15** | | |
| | **Total Credit Hours** | **60** | | |

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Infant Toddler Studies Track Spring Start Academic Plan (Forest Park Only)

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Spring** | | | | |
| CFD 101 | Foundations of Child and Family Development | 3 | Reading Proficiency | |
| CFD 102 | Child Growth and Development | 3 | Reading Proficiency | |
| CFD 103 | Child Nutrition, Health, and Safety | 3 | Reading Proficiency | |
| CFD 104 | Creative Experiences in Early Childhood | 3 | Reading Proficiency | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| | **Credit Hours** | **15** | | |
| **Fall** | | | | |
| CFD 106 | Cognitive Development: Language and Literacy in Early Childhood | 3 | CFD 101 and CFD 102 with minimum grades of "C", and Reading Proficiency | |
| CFD 107 | Family/Community Support and Engagement | 3 | Reading Proficiency | |
| CFD 201 | Social and Emotional Development: Guidance and Discipline | 3 | Reading Proficiency | |
| CFD 204 | Principles of Curriculum Design: Preschool | 3 | CFD 101 and CFD 102 with minimum grades of a "C", and Reading Proficiency | |
| Select one of the following: | | 3 | | |
| XXX xxx | MOTR Natural Science (p. 416) | | | |
| MTH 108 | Elementary Applied Mathematics (or higher) | | Reading Proficiency | |
| | **Credit Hours** | **15** | | |

| | | | | |
|---|---|---|---|---|
| **Second Year** | | | | |
| **Spring** | | | | |
| CFD 202 | Cognitive Development: Math, Science, and Engineering for Young Children | 3 | Concurrent or prior enrollment in CFD 102 with a minimum grade of "C" and Reading Proficiency | |
| CFD 205 | Supervised Student Teaching Practicum: Preschool | 3 | CFD 101, CFD 102, CFD 104, and CFD 204 with minimum grades of "C", and Reading Proficiency | |
| CFD 207 | Societal Perspectives and Advocacy for Young Children | 3 | Reading Proficiency | |
| CFD 108 | Principles of Curriculum Design: Infants, Toddlers, and Two-Year-Olds | 3 | CFD 101 and CFD 102 with minimum grades of "C", and Reading Proficiency | |
| XXX xxx | Social and Behavioral Sciences: Civics Requirement (p. 416) | 3 | | |
| | **Credit Hours** | **15** | | |
| **Fall** | | | | |
| CFD 110 | Social Emotional Supports for Infants and Toddlers | 3 | CFD 101 and CFD 102 with minimum grades of "C", and Reading Proficiency | Apply for graduation. |
| CFD 109 | Supervised Student Teaching Practicum: Infants, Toddlers, and Two-Year-Olds | 3 | CFD 101, CFD 102, CFD 104, and CFD 108 with minimum grades of "C" and Reading Proficiency | |
| CFD 208 | Child and Family Development Capstone: Portfolio Design | 3 | Concurrent or prior enrollment in CFD 205 with a minimum grade of "C" and Reading Proficiency | |
| XXX xxx | MOTR Social & Behavioral Science Elective (p. 416) | 3 | | |
| Select one of the following: | | 3 | | |
| XXX xxx | MOTR Humanities and Fine Arts (p. 416) | | | |
| COM 101 | Oral Communication I (MOTR COMM 100) | | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | |
| | **Credit Hours** | **15** | | |
| | **Total Credit Hours** | **60** | | |

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Cisco Networking Academy: CCNA - CS

**Certificate of Specialization | 15 credit hours minimum**

**School of Business and Computer Information Technology**

**Department Website (https://stlcc.edu/programs-academics/pathways/s-t-e-m/cisco-networking-academy/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

## Program Description:

The Certificate of Specialization in Cisco Networking Academy: CCNA covers comprehensive networking concepts, from network applications to the protocols and services provided to those applications by the lower layers of the network. Students will progress from basic networking to more complex enterprise and theoretical networking later in the curriculum. In each course, students will learn technology concepts with the support of interactive media and apply the knowledge and practice related skills through a series of hands-on and simulated activities that reinforce their learning. The courses serve as preparation to take the Cisco Certified Network Associate (CCNA®) **Implementing and Administering Cisco Solutions (CCNA) (https://www.cisco.com/c/en/us/training-events/training-certifications/training/training-services/courses/implementing-and-administering-cisco-solutions-ccna.html)** exam after completing all three courses.

**Locations.** This program is offered in its entirety at Forest Park.

**Related Programs.** The Computer and Information Technology Department offers an associate and a certificate in the following areas:

- **Network Security Engineering, Associate in Applied Science (p. 307)**
- **Network Security Engineering, Certificate of Proficiency (p. 313)**

**Financial Aid.** This Certificate of Specialization is not eligible for financial aid.

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

## At the completion of the program, students are expected to:

1. design network solutions based on industry standards.
2. develop designed network solutions as a member of a team.
3. demonstrate proficiency in the Cisco Networking Academy courses through successful performance on course final exams based on industry certification exam competencies.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Program Requirements** | | |
| IT 101 | Cisco Networking Academy I: Introduction to Networks | 5 |
| IT 201 | Cisco Networking Academy II: Switching, Routing, and Wireless Essentials | 5 |
| IT 202 | Cisco Networking Academy III: Enterprise Networking, Security, and Automation | 5 |
| **Total Credit Hours** | | **15** |

## Part-Time Academic Plan

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| IT 101 | Cisco Networking Academy I: Introduction to Networks | 5 | Reading Proficiency | Exploratory Course, Gateway Course, Critical Course. Basic computer literacy is expected. Offered Fall, Spring, and Summer - 1st 8 weeks. |
| IT 201 | Cisco Networking Academy II: Switching, Routing, and Wireless Essentials | 5 | IT 101 with a minimum grade of "C", and Reading Proficiency | Gateway Course, Critical Course. Offered Fall and Spring - 2nd 8 weeks. |
| | **Credit Hours** | **10** | | |
| **Spring** | | | | |
| IT 202 | Cisco Networking Academy III: Enterprise Networking, Security, and Automation | 5 | IT 201 with a minimum grade of "C", and Reading Proficiency | Critical Course. Offered Fall and Spring - 1st 8 weeks. |
| | **Credit Hours** | **5** | | |
| | **Total Credit Hours** | **15** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Clinical Coding: CP

**Certificate of Proficiency | 35 credit hours minimum**

**School of Health Professions**

**Program Website (https://stlcc.edu/programs-academics/pathways/health-professions/clinical-coding/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

Clinical Coding, Certificate of Proficiency, program prepares students to classify medical data from a variety of settings, including inpatient facilities. Coding specialists create coded data used by hospitals and medical providers to obtain reimbursement from insurance companies or government programs such as Medicare and Medicaid. Researchers and public health officials also use this data to monitor patterns and explore new interventions. Advanced coding concepts using current classifications are presented along with advanced strategies for coding regulatory compliance, creating provider queries, and demonstrating excellent coding knowledge and skills. The CCS coding credential demonstrates mastery of coding proficiency.

**Locations.** This program is offered at Forest Park by taking a mixture of face-to-face and online courses.

**Related Programs.** The Health Information Management Department offers an associate and a certificate in the following areas:

- **Clinical Coding Associate, Certificate of Specialization (p. 139)**
- **Health Information Management, Associate in Applied Science (p. 256)**

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. utilize advanced skills in classifying medical data from patient records, often in a hospital setting but also in a variety of other healthcare settings.
2. create coded data used by hospitals and medical providers to obtain reimbursement from insurance companies or government programs such as Medicare and Medicaid.
3. demonstrate tested skills in data quality and accuracy as well as mastery of coding proficiency.
4. apply the official coding guidelines.
5. assess the quality of coded data.
6. use encoder, grouping, and computer-assisted-coding software, as well as other specialized coding technologies.
7. conduct coding audits.
8. formulate compliant physician query.
9. explain the American Health Information Management Association (AHIMA) Code of Ethics and Standards of Ethical Coding.

# Program of Study

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

| Code | Title | Credit Hours |
|---|---|---|
| **Foundation Courses** | | |
| BIO 215 | Human Body Systems | 5 |
| HIM 101 | Medical Terminology and Language | 3 |
| HIM 102 | Electronic Health Management | 2 |
| HIM 103 | Human Diseases and Pharmacology | 3 |
| **Area of Concentration** | | |
| HIM 104 | Health Information and Delivery Systems | 3 |
| HIM 106 | International Classification of Diseases Coding I | 3 |
| HIM 107 | Current Procedural Terminology Coding I | 3 |
| HIM 206 | International Classification of Diseases Coding II | 3 |
| HIM 207 | Current Procedural Terminology Coding II | 3 |
| HIM 208 | Advanced Coding Applications | 2 |
| HIM 201 | Reimbursement and Legal Compliance | 3 |
| HIM 210 | Professional Practice Experience | 2 |
| **Total Credit Hours** | | **35** |

# Academic Plan

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| BIO 215 | Human Body Systems | 5 | Reading Proficiency | Gateway Course |
| HIM 101 | Medical Terminology and Language | 3 | Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| HIM 102 | Electronic Health Management | 2 | Reading Proficiency | Exploratory Course |
| HIM 103 | Human Diseases and Pharmacology | 3 | Concurrent or prior enrollment in BIO 215 and HIM 102 with minimum grades of "C", and Reading Proficiency | Gateway Course |
| | **Credit Hours** | **13** | | |
| **Spring** | | | | |
| HIM 106 | International Classification of Diseases Coding I | 3 | BIO 215, HIM 101, HIM 102, and HIM 103 with minimum grades of "C"; and Reading Proficiency | Critical Course |
| HIM 107 | Current Procedural Terminology Coding I | 3 | BIO 215, HIM 101, HIM 102, and HIM 103 with minimum grades of "C"; and Reading Proficiency | Critical Course |
| HIM 104 | Health Information and Delivery Systems | 3 | BIO 215, HIM 101, HIM 102, and HIM 103 with minimum grades of "C" and Reading Proficiency | |
| HIM 201 | Reimbursement and Legal Compliance | 3 | BIO 215, HIM 101, HIM 102, and HIM 103 with minimum grades of "C"; and Reading Proficiency | |
| | **Credit Hours** | **12** | | |
| **Summer** | | | | |
| HIM 206 | International Classification of Diseases Coding II | 3 | HIM 106 and HIM 107 with minimum grades of "C", and Reading Proficiency | |
| HIM 207 | Current Procedural Terminology Coding II | 3 | HIM 107 with a minimum grade of "C" and Reading Proficiency | |
| HIM 208 | Advanced Coding Applications | 2 | HIM 201 with a minimum grade of "C" and Reading Proficiency | Permission of program coordinator |
| HIM 210 | Professional Practice Experience | 2 | Department approval and Reading Proficiency | Permission of program coordinator |
| | **Credit Hours** | **10** | | |
| | **Total Credit Hours** | **35** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Clinical Coding Associate: CS

**Certificate of Specialization | 24 credit hours minimum**

**School of Health Professions**

**Program Website (https://stlcc.edu/pathways/health/clinical-coding/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

## Program Description:

Clinical Coding Associate (CCA), Certificate of Specialization, teaches beginning coding competencies across all settings, including hospital and physician practices. Becoming a CCA certified coder positions graduates with the skills and knowledge to successfully apply codes to diagnoses and procedures. This program is strengthened by a solid foundation of the study of human anatomy, medical terminology and language, human diseases, pharmacology, and computer concepts.

**Locations.** This program is offered at Forest Park by taking a mixture of face-to-face and online courses.

**Related Programs.** The Health Information Management Department offers an associate and a certificate in the following areas:

- **Clinical Coding, Certificate of Proficiency (p. 136)**
- **Health Information Management, Associate in Applied Science (p. 256)**

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

## At the completion of the program, students are expected to:

1. apply biomedical knowledge to the process of code assignment using the basic principles and conventions of clinical classification systems to analyze clinical data for the purposes of coding and reimbursement.
2. validate assignment of diagnostic and procedure codes in accordance with official guidelines, regulatory requirements, and clinical documentation improvement processes.
3. resolve coding challenges individually and collectively in a changing healthcare environment.
4. examine patient health information as it relates to privacy and security using the federal law Health Insurance Portability and Accountability Act (HIPAA).
5. explain the American Health Information Management Association (AHIMA) Code of Ethics and Standards of Ethical Coding.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Program Requirements** | | |
| BIO 215 | Human Body Systems | 5 |
| HIM 101 | Medical Terminology and Language | 3 |
| HIM 102 | Electronic Health Management | 2 |
| HIM 103 | Human Diseases and Pharmacology | 3 |
| HIM 104 | Health Information and Delivery Systems | 3 |
| HIM 106 | International Classification of Diseases Coding I | 3 |
| HIM 107 | Current Procedural Terminology Coding I | 3 |
| HIM 210 | Professional Practice Experience | 2 |
| **Total Credit Hours** | | **24** |

# Academic Plan

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| BIO 215 | Human Body Systems | 5 | Reading Proficiency | Gateway Course |
| HIM 101 | Medical Terminology and Language | 3 | Reading Proficiency | |
| HIM 102 | Electronic Health Management | 2 | Reading Proficiency | Exploratory Course |
| HIM 103 | Human Diseases and Pharmacology | 3 | Concurrent or prior enrollment in BIO 215 and HIM 102 with minimum grades of "C", and Reading Proficiency | Gateway Course |
| | **Credit Hours** | **13** | | |
| **Spring** | | | | |
| HIM 106 | International Classification of Diseases Coding I | 3 | BIO 215, HIM 101, HIM 102, and HIM 103 with minimum grades of "C"; and Reading Proficiency | Critical Course |
| HIM 107 | Current Procedural Terminology Coding I | 3 | BIO 215, HIM 101, HIM 102, and HIM 103 with minimum grades of "C"; and Reading Proficiency | Critical Course |
| HIM 104 | Health Information and Delivery Systems | 3 | BIO 215, HIM 101, HIM 102, and HIM 103 with minimum grades of "C" and Reading Proficiency | |
| HIM 210 | Professional Practice Experience | 2 | Department approval and Reading Proficiency | |
| | **Credit Hours** | **11** | | |
| | **Total Credit Hours** | **24** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Clinical Laboratory Technology (Medical Laboratory Technician): AAS

**Associate in Applied Science | 71 credit hours minimum**

**School of Health Professions**

**Program Website (https://stlcc.edu/programs-academics/pathways/health-professions/clinical-laboratory-technology/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

## Program Description:

The Associate in Applied Science in Clinical Laboratory Technology degree program prepares students for entry-level positions as clinical laboratory technicians. Through classroom and practical experience in hospital and clinical laboratories, students learn to perform qualitative, quantitative, and analytic testing in diagnostic areas such as microbiology, hematology, immunohematology, clinical chemistry, serology, immunology, and urinalysis.

Individuals interested in the Clinical Laboratory Technology program should have an interest in biology, chemistry, and the health sciences and be able to follow precise and detailed instructions.

A student must receive a satisfactory (minimum of a "C") rating in Clinical Laboratory Technology didactic, laboratory, and clinical courses. If a student gets less than a "C" grade in any clinical laboratory technology course, the student will be placed on probation in the program, and the student will not be able to advance through the program until that course has been completed with a "C" or better. Students must also attain a "C" grade or better in all science, math, and English general education courses, as well as all courses in the area of concentration, to graduate from the program.

Graduates are eligible to take the American Society for Clinical Pathology (ASCP) Board of Certification Examination or other examinations offered by accredited certifying agencies. Furthermore, job opportunities for graduates of this program are available in hospitals, clinics, doctors' offices, independent laboratories, research and industrial laboratories, and public health institutions.

## Pre-Entry Requirements

The following must be completed prior to applying to the Clinical Laboratory Technology program:

- MTH 140 or MTH 140S with a minimum grade of "C" or higher
- ENG 101 with a minimum grade of "C"
- CHM 101 or CHM 105 with a minimum grade of "C" within five years of applying to the program
- BIO 111 with a minimum grade of "C" within five years of applying to the program
- Minimum Cumulative GPA: 2.5 or higher

**Note:** While not a pre-entry requirement to the program, BIO 207 must be completed with a "C" or higher within 5 years from application to the program.

**Location.** This program is offered in its entirety at Forest Park and Wildwood.

**Licensure.** This program meets the educational requirements for state licensure in Illinois. Students interested in pursuing licensure in a different state should contact the program coordinator for more information.

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

## At the completion of the program, students are expected to:

1. perform routine laboratory tests across key clinical laboratory departments, such as, urinalysis, transfusion services, hematology, chemistry, immunology, and microbiology.
2. demonstrate the technical and procedural aspects of laboratory testing, safety, and ethical standards of practice.
3. adhere to procedural guidelines to perform laboratory tests, including preanalytical, analytical, and post-analytical processes.
4. communicate laboratory information to patients, physicians, and other authorized sources in a professional manner.

5. utilize a variety of reporting platforms, which may include laboratory information systems, computer technologies, telecommunications, and direct patient conversation while maintaining patient confidentiality.
6. maintain data security for sensitive information.
7. evaluate laboratory data to correlate laboratory tests and results with the symptoms of prevalent diseases using quantitative analytical skills.
8. resolve unexpected laboratory results and instrument faults.
9. demonstrate the ability to integrate the clinical aspects of microbiology, bacteriology, parasitology, and mycobacteriology and how these aspects are analyzed in the lab.
10. explain disease conditions that affect the urinary tract and body fluids.
11. analyze components of blood and its associated diseases.
12. perform biochemical analysis on blood and body fluids and compare their relation to pathology.
13. determine how the immune system responds to infection, blood banking, and physically cross-matching samples.

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Pre-Entry Requirements** | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 |
| MTH 140 | Intermediate Algebra (or MTH 140S or higher) | 3 |
| CHM 101 | Fundamentals of Chemistry I (MOTR CHEM 100L) | 5 |
| or CHM 105 | General Chemistry I (MOTR CHEM 150L) | |
| BIO 111 | Introductory Biology (MOTR BIOL 100L) | 4 |
| **General Education** | | |
| BIO 207 | Anatomy and Physiology I (MOTR LIFS 150LAP) | 4 |
| BIO 208 | Anatomy and Physiology II | 4 |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement | 3 |
| **Program Requirements** | | |
| CLT 100 | Orientation to the Medical Laboratory | 1 |
| CLT 101 | Medical Microbiology | 4 |
| CLT 202 | Clinical Practice I | 4 |
| CLT 207 | Clinical Practice II | 4 |
| CLT 110 | Urinalysis and Body Fluids | 3 |
| CLT 111 | Hematology and Coagulation | 4 |
| CLT 113 | Pathogenic Bacteriology | 3 |
| CLT 211 | Parasites, Fungi, and Intracellular Pathogens | 2 |
| CLT 213 | Introduction to Clinical Chemistry | 3 |
| CLT 217 | Clinical Chemistry | 5 |
| CLT 215 | Immunohematology | 4 |
| CLT 219 | Professional Skills Seminar | 1 |
| CLT 115 | Immunology and Serology | 3 |
| CLT 120 | Clinical Laboratory Skill Development | 4 |
| **Total Credit Hours** | | **71** |

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

# Pre-Entry Requirements

| Code | Title | Credit Hours |
|---|---|---|
| BIO 111 | Introductory Biology (MOTR BIOL 100L) [1] | 4 |
| CHM 101 | Fundamentals of Chemistry I (MOTR CHEM 100L) [1] | 5 |
| or CHM 105 | General Chemistry I (MOTR CHEM 150L) | |
| ENG 101 | College Composition I (MOTR ENGL 100) [2] | 3 |
| MTH 140 | Intermediate Algebra [2] | 3 |
| **Total Credit Hours** | | **15** |

# Full-Time Academic Plan

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| BIO 207 | Anatomy and Physiology I (MOTR LIFS 150LAP) | 4 | BIO 111 or BIO 140 or CHM 101 with a minimum grade of "C", or college-level course equivalent, and Reading Proficiency | While not a prerequisite to the program, this course must be completed with a “C” or higher within 5 years from application to the program. |
| CLT 100 | Orientation to the Medical Laboratory | 1 | Admission to the Clinical Laboratory Technology program and Reading Proficiency | Course must be completed with a minimum grade of 'C'. |
| CLT 101 | Medical Microbiology | 4 | Admission to the Clinical Laboratory Technology program, permission of the program director, and Reading Proficiency | Course must be completed with a minimum grade of 'C'. |
| CLT 110 | Urinalysis and Body Fluids | 3 | Admission to the Clinical Laboratory Technology program, permission of the program director, and Reading Proficiency | Course must be completed with a minimum grade of 'C'. |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| CLT 111 | Hematology and Coagulation | 4 | CLT 100 with a minimum grade of "C" or permission of the program director and Reading Proficiency | Course must be completed with a minimum grade of 'C'. |
| CLT 113 | Pathogenic Bacteriology | 3 | CLT 101 with a minimum grade of "C" or permission of the program director and Reading Proficiency | Course must be completed with a minimum grade of 'C'. |
| CLT 115 | Immunology and Serology | 3 | CLT 101 with a minimum grade of "C" and Reading Proficiency | Course must be completed with a minimum grade of 'C'. |
| BIO 208 | Anatomy and Physiology II | 4 | BIO 207 with a minimum grade of "C" and Reading Proficiency | Course must be completed with a minimum grade of 'C'. |
| | **Credit Hours** | **14** | | |
| **Summer** | | | | |
| CLT 120 | Clinical Laboratory Skill Development | 4 | CLT 110, CLT 111, CLT 113, and CLT 115 all with minimum grades of "C" and Reading Proficiency | Course must be completed with a minimum grade of 'C'. |
| | **Credit Hours** | **4** | | |

| | | | | |
|---|---|---|---|---|
| **Second Year** | | | | |
| **Fall** | | | | |
| CLT 211 | Parasites, Fungi, and Intracellular Pathogens | 2 | CLT 101 with a minimum grade of "C" or the permission of the program director and Reading Proficiency | Course must be completed with a minimum grade of 'C'. |
| CLT 202 | Clinical Practice I | 4 | CLT 120 with a minimum grade of "C" and Reading Proficiency | Course must be completed with a minimum grade of 'C'. |
| CLT 213 | Introduction to Clinical Chemistry | 3 | CLT 100 with a minimum grade of "C" and Reading Proficiency | Course must be completed with a minimum grade of 'C'. |
| CLT 215 | Immunohematology | 4 | CLT 115 with minimum grade of "C" and Reading Proficiency | Course must be completed with a minimum grade of 'C'. |
| | **Credit Hours** | **13** | | |
| **Spring** | | | | |
| CLT 219 | Professional Skills Seminar | 1 | CLT 202 with a grade of "S" or permission of the program director and Reading Proficiency | Course must be completed with a minimum grade of 'C'. Apply for graduation. |
| CLT 217 | Clinical Chemistry | 5 | CLT 213 with a minimum grade of "C" or permission of program director and Reading Proficiency | Course must be completed with a minimum grade of 'C'. |
| CLT 207 | Clinical Practice II | 4 | CLT 202 with a grade of "S" and Reading Proficiency | Course must be completed with a minimum grade of 'C'. |
| | **Credit Hours** | **10** | | |
| | **Total Credit Hours** | **56** | | |

1 Must be completed with a minimum grade of 'C' within the past 5 years.
2 Must be completed with a minimum grade of 'C'.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# CompTIA A+ Certification: CS

**Certificate of Specialization | 6 credit hours minimum**

**School of Business and Computer Information Technology**

**Program Website (https://stlcc.edu/pathways/stem/comptia-a-plus-security-plus/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

CompTIA A+ Certification prepares students for the two required exams (hardware and software) that make up the CompTIA A+ certification.

**Locations.** This program is offered in its entirety at Florissant Valley, Forest Park, and Meramec.

**Related Programs.** The Computer and Information Technology Department offers an associate and certificates in the following areas:

- **CompTIA A+ and Security+ Certifications, Certificate of Specialization (p. 146)**
- **IT Help Desk/End User Support, Certificate of Specialization (p. 285)**
- **Network Security Engineering, Associate in Applied Science (p. 307)**
- **Network Security Engineering, Certificate of Proficiency (p. 313)**

**Financial Aid.** This Certificate of Specialization is not eligible for financial aid.

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. document computer-based problems and resolution.
2. troubleshoot computer problems.
3. perform user needs analysis and assessment.
4. configure end-user computer systems.
5. prepare for the CompTIA A+ hardware certification exam.
6. prepare for the CompTIA A+ software certification exam.

# Program of Study

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

| Code | Title | Credit Hours |
|---|---|---|
| **Program Requirements** | | |
| IS 130 | Hardware Support - CompTIA A+ Core 1 (Hardware) | 3 |
| IT 102 | Desktop Software Support - CompTIA A+ Core 2 (Software) | 3 |
| **Total Credit Hours** | | **6** |

# Part-Time Academic Plan

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| IT 102 | Desktop Software Support - CompTIA A + Core 2 (Software) | 3 | Reading Proficiency | Usually offered as 8-week hybrid format. |
| IS 130 | Hardware Support - CompTIA A+ Core 1 (Hardware) | 3 | Reading Proficiency | Usually offered as 8-week hybrid format. |
| | **Credit Hours** | **6** | | |
| | **Total Credit Hours** | **6** | | |

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# CompTIA A+ and Security+ Certifications: CS

**Certificate of Specialization | 9 credit hours minimum**

**School of Business and Computer Information Technology**

**Program Website (https://stlcc.edu/programs-academics/pathways/s-t-e-m/comptia-a-plus-security-plus/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

## Program Description:

CompTIA A+ and Security+ Certifications prepares students for the two required exams (hardware and software) that make up the CompTIA A+ certification and the one required exam in the CompTIA Security+ certification.

**Locations.** This program is offered in its entirety at Florissant Valley, Forest Park, and Meramec.

**Related Programs.** The Computer and Information Technology Department offers an associate and certificates in the following areas:

- **CompTIA A+ Certification, Certificate of Specialization (p. 144)**
- **IT Help Desk/End User Support, Certificate of Specialization (p. 285)**
- **Network Security Engineering, Associate in Applied Science (p. 307)**
- **Network Security Engineering, Certificate of Proficiency (p. 313)**

**Financial Aid.** This Certificate of Specialization is not eligible for financial aid.

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

## At the completion of the program, students are expected to:

1. document computer-based problems and resolution.
2. troubleshoot computer problems.
3. perform user needs analysis and assessment.
4. configure end-user computer systems.
5. apply security settings based on enterprise policies and procedures.
6. prepare for the CompTIA A+ hardware certification exam.
7. prepare for the CompTIA A+ software certification exam.
8. prepare for the CompTIA Security+ certification exam.

## Program of Study

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

| Code | Title | Credit Hours |
|---|---|---|
| **Program Requirements** | | |
| IS 130 | Hardware Support - CompTIA A+ Core 1 (Hardware) | 3 |
| IT 102 | Desktop Software Support - CompTIA A+ Core 2 (Software) | 3 |
| IS 237 | Fundamentals of Information Assurance/Security - CompTIA Security+ | 3 |
| **Total Credit Hours** | | **9** |

# Part-Time Academic Plan

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| IT 102 | Desktop Software Support - CompTIA A + Core 2 (Software) | 3 | Reading Proficiency | Usually offered 8-week hybrid format. Take first 8 weeks. |
| IS 130 | Hardware Support - CompTIA A+ Core 1 (Hardware) | 3 | Reading Proficiency | Exploratory Course, Gateway Course. Usually offered 8-week hybrid format. Take first 8 weeks. |
| IS 237 | Fundamentals of Information Assurance/Security - CompTIA Security + | 3 | IT 102 or IS 229 with a minimum grade of "C" and Reading Proficiency | Usually offered 8-week hybrid format. Take second 8-weeks. IS 237 has a prerequisite of IT 102 or IS 229. Students in this program must take IT 102. |
| | **Credit Hours** | **9** | | |
| | **Total Credit Hours** | **9** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Computed Tomography: CS

**Certificate of Specialization | 18 credit hours minimum**

**School of Health Professions**

**Program Website (https://stlcc.edu/programs-academics/pathways/health-professions/computed-tomography/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

The Computed Tomography (CT) Certificate of Specialization is designed for graduates of an associate degree radiologic science program and registered Radiologic Technologist, Radiation Therapist, or Nuclear Medicine Technologist entering the field of Computed Tomography (CT). The Computed Tomography certificate provides the student with the required course work and clinical practice to perform as a Computer Tomography Technologist in medical imaging departments of hospitals, medical centers, and free-standing medical imaging facilities. Upon successful completion of the program, students are eligible to take the American Registry of Radiologic Technologists (ARRT) Computed Tomography certification examination.

Pre-requisites for CT certificate program: Must be a registered Radiologic Technologist with ARRT RT(R), a Nuclear Medicine Technologist with NMTCB (CNMT) or ARRT RT(N), or a Radiation Therapist with ARRT RT(T) credentials. Additional student expenses include criminal background check, 5 panel drug screen, physical exam and immunization record or titers, PPD and current American Heart Association Basic Life Support for Healthcare Providers (CPR card).

**Locations.** This program is offered in its entirety at Wildwood.

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. correlate technical factor manipulation effect on image quality in CT imaging.
2. evaluate routine imaging and phase of contrast in addition to therapeutic procedures, virtual colonoscopy, and radiation therapy planning.
3. apply basic anatomy and physiology of the human body as it relates to CT imaging.
4. apply radiation safety techniques during imaging for all persons involved in clinical examinations.
5. paraphrase specifics of the different methods of data acquisition, image formation, evaluation, and archival process in CT.
6. identify the limitations and risks associated with CT, including radiation exposure, and image artifact identification.
7. identify components and history of the CT unit and the accessory equipment involved.
8. outline contrast agents based upon chemical makeup and the possible side effects.
9. perform CT imaging procedures specific to the head, neck, chest, spine, abdomen, pelvis, and musculoskeletal system.

# Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Program Requirements** | | |
| CT 101 | Cross-Sectional Anatomy for Computed Tomography | 3 |
| CT 102 | Principles and Patient Care in Computed Tomography | 3 |
| CT 103 | Clinical Practicum I for Computed Tomography | 3 |
| CT 104 | Physics and Instrumentation in Computed Tomography | 3 |
| CT 201 | Radiation Safety and Quality Management in Computed Tomography | 2 |
| CT 202 | Clinical Practicum II for Computed Tomography | 3 |
| CT 203 | Registry Review for Computed Tomography | 1 |
| **Total Credit Hours** | | **18** |

# Part-Time Academic Plan

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| CT 101 | Cross-Sectional Anatomy for Computed Tomography | 3 | Admission to the Computed Tomography (CT) program and Reading Proficiency | Critical Course |
| CT 102 | Principles and Patient Care in Computed Tomography | 3 | Admission to the Computed Tomography (CT) program and Reading Proficiency | Gateway Course |
| CT 103 | Clinical Practicum I for Computed Tomography | 3 | Admission to the Computed Tomography (CT) program and Reading Proficiency | |
| | **Credit Hours** | **9** | | |

| | | | | |
|---|---|---|---|---|
| **Spring** | | | | |
| CT 104 | Physics and Instrumentation in Computed Tomography | 3 | Admission to the Computed Tomography (CT) program and Reading Proficiency | |
| CT 201 | Radiation Safety and Quality Management in Computed Tomography | 2 | Admission to the Computed Tomography (CT) program and Reading Proficiency | |
| CT 202 | Clinical Practicum II for Computed Tomography | 3 | CT 101, CT 102, CT 103, and CT 104 with a minimum grade of “C” and Reading Proficiency | |
| | **Credit Hours** | **8** | | |
| **Summer** | | | | |
| CT 203 | Registry Review for Computed Tomography | 1 | ARRT or NMTCB Registered Technologist and documentation of 720 hours of clinical CT hours or concurrent or prior enrollment in CT 202 with a minimum grade of "C", and Reading Proficiency | |
| | **Credit Hours** | **1** | | |
| | **Total Credit Hours** | **18** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Computer Accounting Technology: CS

**Certificate of Specialization | 16 credit hours minimum**

**School of Business and Computer Information Technology**

**Program Website (https://stlcc.edu/programs-academics/pathways/b-m-c-a-h/computer-accounting-technology/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

The Computer Accounting Technology Certificate of Specialization program is designed for Accounting students on the fast-track to the job-market or working professionals who want to update their computer technology skills. Students who are enrolled in the Certificate of Specialization program will receive hands-on training with Microsoft Excel, QuickBooks, and Access on how to apply these technologies in an Accounting setting.

**Locations.** This program is offered at Meramec and Florissant Valley by taking a mixture of face-to-face and online courses.

**Related Programs.** The Accounting Department offers an associate and a certificate in the following areas:

- **Accounting, Associate in Applied Science (p. 62)**
- **Accounting, Certificate of Proficiency (p. 67)**

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. demonstrate a working knowledge of basic accounting terminology and the accounting cycle.
2. classify business transactions using basic accounting concepts (manually and with the use of computer technology).
3. record business transactions using basic accounting concepts (manually and with the use of computer technology).
4. compute business transactions using basic accounting concepts (manually and with the use of computer technology).
5. verify business transactions using basic accounting concepts (manually and with the use of computer technology).
6. prepare the four basic financial statements according to GAAP (Income Statement, Equity Statement, Balance Sheet, and Cash Flows Statement).
7. create professional documents about the financial condition of a business entity.
8. make financial decisions about the four basic financial statements.
9. identify the various uses of technology as it applies to the Accounting field.
10. demonstrate technical proficiency for an entry-level junior accountant with the use of Quickbooks software and Microsoft Excel.
11. identify the different types of ethical issues that are encountered in a business environment.

# Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Program Requirements** | | |
| ACC 110 | Financial Accounting | 4 |
| ACC 120 | Computer Accounting Applications for Business | 3 |
| ACC 122 | Computer Accounting Applications - Spreadsheets | 3 |
| ACC 124 | Computer Accounting Applications - Databases | 3 |
| Select 3 credit hours of the following: | | 3 |
| ACC 114 | Managerial Accounting (or higher) | |
| IS 116 | Computer Literacy | |
| or IS 151 | Computer Applications in Business | |
| **Total Credit Hours** | | **16** |

# Academic Plan

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| ACC 110 | Financial Accounting | 4 | ACC 100 with a minimum grade of "C" or a high school accounting course or department approval, and Reading Proficiency | Exploratory Course, Gateway Course |
| | **Credit Hours** | **4** | | |
| **Spring** | | | | |
| ACC 120 | Computer Accounting Applications for Business | 3 | ACC 100 with a minimum grade of "C" and/or ACC 110 with a minimum grade of "C" and/or department approval and Reading Proficiency | Apply for graduation. |

| | | | | |
|---|---|---|---|---|
| ACC 122 | Computer Accounting Applications - Spreadsheets | 3 | ACC 110 with a minimum grade of "C" and Reading Proficiency | |
| ACC 124 | Computer Accounting Applications - Databases | 3 | ACC 110 with a minimum grade of "C" or department approval and Reading Proficiency | |
| Choose one of the following: | | 3 | | |
| IS 116 | Computer Literacy | | Reading Proficiency | |
| IS 151 | Computer Applications in Business | | Concurrent or prior enrollment in IS 122 or IS 123 or IT 102 or HIM 102 with a minimum grade of "C" or equivalent experience and Reading Proficiency | |
| ACC 114 | Managerial Accounting (or higher) | | ACC 110 with minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **12** | | |
| | **Total Credit Hours** | **16** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Computer Aided Design (CAD): CS

**Certificate of Specialization | 16 credit hours minimum**

**School of Advanced Manufacturing, Transportation, and Hospitality Studies**

**Program Website (https://stlcc.edu/programs-academics/pathways/a-m-i-o-t/computer-aided-design/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

The Computer Aided Design (CAD) Certificate of Specialization prepares a CAD operator to interpret data from multiple sources, apply traditional drafting skills, utilize operating system software, and follow industrial practices and company procedures related to CAD work. Graduates will be able to efficiently perform all tasks related to producing final drawings and CAD models.

**Locations.** This program is offered in its entirety at Florissant Valley.

**Related Programs.** The Engineering Technology and Manufacturing Department offers an associate in the following area:

- **Engineering Technology, Associate in Applied Science (p. 207)**

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program “St. Louis Community College” and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. create two-dimensional (2D) CAD drawings.
2. create three-dimensional (3D) CAD models.
3. produce drawings that comply with industry standards.
4. incorporate and extract design properties in CAD files.
5. manage CAD files.
6. interpret mechanical and electrical drawings.

# Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Program Requirements** | | |
| GE 101 | Technical Computer Applications | 3 |
| EGR 100 | Engineering Drawing | 3 |
| EGR 133 | Introduction to AutoCAD I | 2 |
| GE 135 | Blueprint Reading for Engineering Technicians | 2 |
| EGR 141 | Introduction to AutoCAD II | 2 |
| Select one course: | | |
| ME 230 | Introduction to 3-D Solid Modeling for Design | 4 |
| or EGR 230 | Introduction to Revit | |
| **Total Credit Hours** | | **16** |

# Part-Time Academic Plan

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| EGR 100 | Engineering Drawing | 3 | Reading Proficiency or concurrent enrollment in RDG 079 | Exploratory Course, Gateway Course, Critical Course |
| EGR 133 | Introduction to AutoCAD I | 2 | Reading Proficiency | |
| GE 135 | Blueprint Reading for Engineering Technicians | 2 | Reading Proficiency | |
| GE 101 | Technical Computer Applications | 3 | Reading Proficiency | |
| | **Credit Hours** | **10** | | |
| **Spring** | | | | |
| Choose one of the following: | | 4 | | |
| ME 230 | Introduction to 3-D Solid Modeling for Design | | EGR 100 with a minimum grade of "C" or Department approval and Reading Proficiency | |
| EGR 230 | Introduction to Revit | | Reading Proficiency | |
| EGR 141 | Introduction to AutoCAD II | 2 | EGR 133 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| | **Total Credit Hours** | **16** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Criminal Justice: AAS

**Associate in Applied Science | 60 credit hours minimum**

**School of Education, Public Service, and Social Sciences**

**Program Website (https://stlcc.edu/programs-academics/pathways/s-b-s-h-s-e/criminal-justice/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

The Criminal Justice Associate in Applied Science prepares students for entry-level employment in the criminal justice system and can assist those currently employed in entry-level jobs with career advancement. The program introduces students to the criminal justice system and its interrelated components: law enforcement, courts, and corrections. Students will develop a critical understanding of the historical and contemporary realities of the American criminal justice system and the application of criminal law.

**Locations.** This program is offered at Florissant Valley, Forest Park, and Meramec by taking a mixture of face-to-face and online courses.

**Related Programs.** The Criminal Justice Department offers a certificate in the following area:

- **Criminal Justice, Certificate of Proficiency (p. 156)**

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. identify the three major components of the criminal justice system and their functions.
2. identify the constraints imposed by, and the rights guaranteed by, the U.S. Constitution as they apply to work in the criminal justice field.
3. distinguish between the adult and juvenile systems including procedural differences and the distinct and overlapping roles of each.
4. analyze the nature of crime and criminal behavior and its impact on policy directed at public safety.
5. demonstrate effective questioning or interviewing practices with witnesses, those accused of crimes, or those under correctional control.
6. produce clearly written documentation in the performance of duties as criminal justice professionals.
7. articulate the influence of historical and contemporary social and legal contexts on the criminal justice system specific to diversity and inequality.

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **General Education** | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 |
| PHL 104 | Ethics (MOTR PHIL 102) | 3 |
| MTH 161 | Quantitative Reasoning (MOTR MATH 120) | 3 |
| or MTH 161S | Quantitative Reasoning with Support (MOTR MATH 120) | |
| or MTH 180 | Introductory Statistics (MOTR MATH 110) | |
| or MTH 180S | Introductory Statistics with Support (MOTR MATH 110) | |
| PSY 200 | General Psychology (MOTR PSYC 100) | 3 |
| SOC 101 | Introduction to Sociology (MOTR SOCI 101) | 3 |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement | 3 |
| COM 201 | Interpersonal Communication (MOTR COMM 120) | 3 |
| SOC 203 | Introduction to Criminology (MOTR CRIM 205) | 3 |
| **Program Requirements** | | |
| PSY 208 | Abnormal Psychology | 3 |
| or CHM 123 | Fundamentals of Forensic Chemistry (MOTR CHEM 100) | |
| CRJ 101 | American Correctional System | 3 |
| CRJ 111 | Rules of Criminal Evidence | 3 |
| CRJ 122 | Introduction to Criminal Justice (MOTR CRJS 101) | 3 |
| CRJ 123 | Juvenile Justice | 3 |
| CRJ 124 | Criminal Law and Procedures | 3 |
| CRJ 129 | Introduction to Law Enforcement | 3 |
| CRJ 206 | Diversity and Criminal Justice | 3 |
| CRJ 212 | Criminal Investigation | 3 |
| CRJ 218 | Criminal Justice Policy | 3 |
| PRD 128 | Mental Health First Aid | 1 |
| HW 109 | First Aid | 2 |
| IS 116 | Computer Literacy | 3 |
| **Total Credit Hours** | | **60** |

# Full-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| CRJ 122 | Introduction to Criminal Justice (MOTR CRJS 101) | 3 | Reading Proficiency | Join Criminal Justice Student Association. |
| CRJ 124 | Criminal Law and Procedures | 3 | Concurrent or prior enrollment in CRJ 122 with a minimum grade of "C" and Reading Proficiency | Attend Criminal Justice Career Fair. |
| MTH 161<br>or 180 | Quantitative Reasoning (MOTR MATH 120)<br>or Introductory Statistics (MOTR MATH 110) | 3 | Satisfactory score on placement test and Reading Proficiency | MTH 161S or MTH 180S will also fulfill this requirement, but only 3 credits will apply toward the degree. |

| | | | | |
|---|---|---|---|---|
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| CRJ 101 | American Correctional System | 3 | Concurrent or prior enrollment in CRJ 122 with a minimum grade of "C" and Reading Proficiency | Attend Criminal Justice Career Fair. |
| CRJ 123 | Juvenile Justice | 3 | Concurrent or prior enrollment in CRJ 122 with a minimum grade of "C" and Reading Proficiency | |
| SOC 203 | Introduction to Criminology (MOTR CRIM 205) | 3 | Reading Proficiency | |
| SOC 101 | Introduction to Sociology (MOTR SOCI 101) | 3 | Reading Proficiency or concurrent enrollment in RDG 079 | |
| IS 116 | Computer Literacy | 3 | Reading Proficiency | |
| | **Credit Hours** | **15** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| CRJ 111 | Rules of Criminal Evidence | 3 | Concurrent or prior enrollment in CRJ 122 with a minimum grade of "C" and Reading Proficiency | Attend Criminal Justice Career Fair. |
| CRJ 129 | Introduction to Law Enforcement | 3 | Concurrent or prior enrollment in CRJ 122 with a minimum grade of "C" and Reading Proficiency | |
| HW 109 | First Aid | 2 | | |
| PRD 128 | Mental Health First Aid | 1 | Reading Proficiency | |
| PSY 200 | General Psychology (MOTR PSYC 100) | 3 | Reading Proficiency or concurrent enrollment in RDG 079 | |
| COM 201 | Interpersonal Communication (MOTR COMM 120) | 3 | Reading Proficiency | |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| CRJ 218 | Criminal Justice Policy | 3 | Concurrent or prior enrollment in CRJ 122 with a minimum grade of "C" and Reading Proficiency | Apply for graduation. |
| CRJ 206 | Diversity and Criminal Justice | 3 | Concurrent or prior enrollment in CRJ 122 with a minimum grade of "C" and Reading Proficiency | Attend Criminal Justice Career Fair. |
| CRJ 212 | Criminal Investigation | 3 | Concurrent or prior enrollment in CRJ 122 with a minimum grade of "C" and Reading Proficiency | |
| PHL 104 | Ethics (MOTR PHIL 102) | 3 | Reading Proficiency or concurrent enrollment in RDG 079 | |
| Choose one of the following: | | 3 | | |
| PSY 208 | Abnormal Psychology | | PSY 200 with a minimum grade of "C" and Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| CHM 123 | Fundamentals of Forensic Chemistry (MOTR CHEM 100) | | Reading Proficiency | |
| | **Credit Hours** | **15** | | |
| | **Total Credit Hours** | **60** | | |

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Criminal Justice: CP

**Certificate of Proficiency | 30 credit hours minimum**

**School of Education, Public Service, and Social Sciences**

**Program Website (https://stlcc.edu/programs-academics/pathways/s-b-s-h-s-e/criminal-justice/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

The Criminal Justice Certificate of Proficiency prepares students for employment and advancement in an entry-level career in law enforcement, the courts, and corrections. This program is designed for students who want to enhance their skills and competencies in professional criminal justice roles. Students will acquire a fundamental knowledge in legal procedures, strong written skills, and a basic understanding of the government process.

**Locations.** This program is offered at Florissant Valley, Forest Park, and Meramec by taking a mixture of face-to-face and online courses.

**Related Program.** The Criminal Justice Department offers an associate in the following area:

- **Criminal Justice, Associate in Applied Science (p. 153)**

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. identify the major components of the criminal justice system.
2. explain legal concepts, terminology, and evidentiary rules and constitutional limitations to which criminal justice professionals must adhere when practicing within the field.
3. explain the functions of law enforcement, corrections, and the courts.
4. analyze crime-related issues in the community.
5. propose ethical and legal solutions to crime-related issues in the community.
6. complete clear and concise written documentation in the performance of their duties as criminal justice professionals.
7. distinguish the overlapping roles of law enforcement agencies, the criminal and juvenile court systems, and correctional facilities.
8. identify the theories of crime and deviance, rehabilitation, and punishment.

# Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Program Requirements** | | |
| CRJ 122 | Introduction to Criminal Justice (MOTR CRJS 101) | 3 |
| CRJ 101 | American Correctional System | 3 |
| CRJ 129 | Introduction to Law Enforcement | 3 |
| CRJ 123 | Juvenile Justice | 3 |
| CRJ 124 | Criminal Law and Procedures | 3 |
| CRJ 212 | Criminal Investigation | 3 |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 |
| or ENG 102 | College Composition II (MOTR ENGL 200) | |
| CRJ 206 | Diversity and Criminal Justice | 3 |
| or SOC 203 | Introduction to Criminology (MOTR CRIM 205) | |
| PHL 104 | Ethics (MOTR PHIL 102) | 3 |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 |
| **Total Credit Hours** | | **30** |

# Full-Time Academic Plan

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| CRJ 122 | Introduction to Criminal Justice (MOTR CRJS 101) | 3 | Reading Proficiency | Exploratory Course, Gateway Course, Critical Course |
| CRJ 101 | American Correctional System | 3 | Concurrent or prior enrollment in CRJ 122 with a minimum grade of "C" and Reading Proficiency | |
| CRJ 129 | Introduction to Law Enforcement | 3 | Concurrent or prior enrollment in CRJ 122 with a minimum grade of "C" and Reading Proficiency | |
| ENG 101<br>or 102 | College Composition I (MOTR ENGL 100)<br>or College Composition II (MOTR ENGL 200) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| CRJ 123 | Juvenile Justice | 3 | Concurrent or prior enrollment in CRJ 122 with a minimum grade of "C" and Reading Proficiency | |
| CRJ 124 | Criminal Law and Procedures | 3 | Concurrent or prior enrollment in CRJ 122 with a minimum grade of "C" and Reading Proficiency | |
| Choose one of the following: | | 3 | | |
| CRJ 206 | Diversity and Criminal Justice | | Concurrent or prior enrollment in CRJ 122 with a minimum grade of "C" and Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| SOC 203 | Introduction to Criminology (MOTR CRIM 205) | | Reading Proficiency | |
| CRJ 212 | Criminal Investigation | 3 | Concurrent or prior enrollment in CRJ 122 with a minimum grade of "C" and Reading Proficiency | |
| PHL 104 | Ethics (MOTR PHIL 102) | 3 | Reading Proficiency or concurrent enrollment in RDG 079 | |
| | **Credit Hours** | **15** | | |
| | **Total Credit Hours** | **30** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Culinary Arts: AAS

**Associate in Applied Science | 65 credit hours minimum**

**School of Advanced Manufacturing, Transportation, and Hospitality Studies**

**Program Website (https://stlcc.edu/programs-academics/pathways/b-m-c-a-h/culinary-arts/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

## Program Description:

The Culinary Arts program is designed to meet current and future needs for training food service and food service managerial persons to assume leadership roles in the industry. The curriculum covers food preparation, production, table service and culinary management. Addressing the business, academic, and technical aspects of the industry, the curriculum offers a wide range of courses, specifically meeting the requirements of the hotels, restaurants and clubs in this field. The program features a heavy emphasis on food preparation from basic to advanced, combined with courses that offer a foundation in the managerial aspects of the industry.

**Locations.** This program is offered in its entirety at Forest Park.

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program “St. Louis Community College” and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

## At the completion of the program, students are expected to:

1. work within established guidelines for safety and sanitation at all times.
2. prepare benchmark recipes demonstrating basic culinary techniques and understanding of equipment.
3. demonstrate a basic understanding of the various segments and career opportunities that comprise the expansive hospitality industry.
4. project a level of professionalism appropriate to hospitality industry standards.

5. interpret numerical data that will influence financial decisions in foodservice operations.
6. describe functions and food sources of the major nutrient in food preparation and storage.

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

# Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **General Education** | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 |
| COM 101 | Oral Communication I (MOTR COMM 100) | 3 |
| BIO 125 | Principles of Nutrition (MOTR LIFS 100N) | 3 |
| MTH 108 | Elementary Applied Mathematics (or Higher Level Mathematics) | 3 |
| SOC 101 | Introduction to Sociology (MOTR SOCI 101) | 3 |
| HST 102 | United States History from 1865 to the Present (MOTR HIST 102) | 3 |
| **Program Requirements** | | |
| HTM 100 | Introduction to the Hospitality Industry | 3 |
| CUL 101 | Safety and Sanitation | 1 |
| BIO 177 | Food Science | 3 |
| HTM 120 | Supervision and Leadership in the Hospitality Industry | 3 |
| HTM 210 | Hospitality Financial Planning and Cost Control | 3 |
| HTM 200 | Procurement in the Hospitality Industry | 3 |
| HTM 230 | Bar and Beverage Management | 3 |
| **Culinary Arts Courses** | | |
| CUL 110 | Food Preparation Practical I | 3 |
| CUL 115 | Food Preparation Practical II | 3 |
| CUL 120 | Food Preparation Practical III | 3 |
| BAP 150 | Bakeshop Basics for Culinarians | 3 |
| CUL 201 | Garde Manger | 2 |
| CUL 205 | Global Cuisine | 2 |
| CUL 210 | Nutritional Cooking | 2 |
| CUL 215 | American Regional Cuisine | 2 |
| CUL 220 | Introduction to a la Carte Cooking | 2 |
| CUL 250 | Culinary Arts Capstone | 6 |
| **Total Credit Hours** | | **65** |

# Full-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |

| | | | | |
|---|---|---|---|---|
| MTH 108 | Elementary Applied Mathematics (or higher) | 3 | Reading Proficiency | |
| SOC 101 | Introduction to Sociology (MOTR SOCI 101) | 3 | Reading Proficiency or concurrent enrollment in RDG 079 | |
| HTM 100 | Introduction to the Hospitality Industry | 3 | Reading Proficiency | Exploratory Course, Gateway Course |
| CUL 101 | Safety and Sanitation | 1 | Reading Proficiency | Gateway Course. Upon successful completion of this semester, students are eligible to enroll in lab classes. |
| BIO 125 | Principles of Nutrition (MOTR LIFS 100N) | 3 | Reading Proficiency | |
| | **Credit Hours** | **16** | | |
| **Spring** | | | | |
| BIO 177 | Food Science | 3 | Reading Proficiency | |
| CUL 110 | Food Preparation Practical I [1] | 3 | CUL 101 with a grade of "S", HTM 100 with a minimum grade of "C", and Reading Proficiency | See Footnote 1 below for additional information. |
| CUL 115 | Food Preparation Practical II [1] | 3 | CUL 110 with a minimum grade of "C" and Reading Proficiency | See Footnote 1 below for additional information. |
| CUL 120 | Food Preparation Practical III [1] | 3 | CUL 115 with a minimum grade of "C" and Reading Proficiency | See Footnote 1 below for additional information. |
| BAP 150 | Bakeshop Basics for Culinarians [1] | 3 | CUL 101 with a grade of "S", HTM 100 with a minimum grade of "C", and Reading Proficiency | See Footnote 1 below for additional information. |
| | **Credit Hours** | **15** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| HTM 200 | Procurement in the Hospitality Industry | 3 | HTM 100 and MTH 108 or higher with minimum grades of "C", and Reading Proficiency | |
| HTM 210 | Hospitality Financial Planning and Cost Control | 3 | HTM 100 and MTH 108 or higher with minimum grades of "C", and Reading Proficiency | |
| CUL 201 | Garde Manger | 2 | BAP 150 and CUL 120 with minimum grades of "C" and Reading Proficiency | |
| CUL 205 | Global Cuisine | 2 | BAP 150 and CUL 120 with minimum grades of "C" and Reading Proficiency | |
| CUL 210 | Nutritional Cooking | 2 | DIT 115, BAP 150, and CUL 120 with minimum grades of "C" and Reading Proficiency | |
| CUL 215 | American Regional Cuisine | 2 | CUL 120 and BAP 150 with minimum grades of "C" and Reading Proficiency | |
| CUL 220 | Introduction to a la Carte Cooking | 2 | BAP 150 and CUL 120 with minimum grades of "C", and Reading Proficiency | |
| | **Credit Hours** | **16** | | |
| **Spring** | | | | |
| COM 101 | Oral Communication I (MOTR COMM 100) | 3 | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | |
| HST 102 | United States History from 1865 to the Present (MOTR HIST 102) | 3 | Reading Proficiency or concurrent enrollment in RDG 079 | |

| | | | | |
|---|---|---|---|---|
| HTM 120 | Supervision and Leadership in the Hospitality Industry | 3 | HTM 100 with a minimum grade of "C" and Reading Proficiency | |
| HTM 230 | Bar and Beverage Management | 3 | HTM 100 with a minimum grade of "C" and Reading Proficiency | |
| CUL 250 | Culinary Arts Capstone | 6 | BAP 150, CUL 201, CUL 205, CUL 210, CUL 215, CUL 220, HTM 200, HTM 210 all with a minimum grade of "C", and Reading Proficiency | Students are eligible to apply to the American Culinary Federation for certification as a Certified Culinarian (CC) upon graduation. |
| | **Credit Hours** | **18** | | |
| | **Total Credit Hours** | **65** | | |

[1] Students are asked to enroll in CUL 110, CUL 115, CUL 120, and BAP 150 in the same semester. Please contact Culinary Arts Program Coordinator, Ellen Piazza for course entry advisement at **epiazza@stlcc.edu**.

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Part-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| MTH 108 | Elementary Applied Mathematics (or higher) | 3 | Reading Proficiency | |
| SOC 101 | Introduction to Sociology (MOTR SOCI 101) | 3 | Reading Proficiency or concurrent enrollment in RDG 079 | |
| | **Credit Hours** | **6** | | |
| **Spring** | | | | |
| HTM 100 | Introduction to the Hospitality Industry | 3 | Reading Proficiency | Exploratory Course, Gateway Course |
| BIO 125 | Principles of Nutrition (MOTR LIFS 100N) | 3 | Reading Proficiency | |
| | **Credit Hours** | **6** | | |

| | | | | |
|---|---|---|---|---|
| **Summer** | | | | |
| CUL 101 | Safety and Sanitation | 1 | Reading Proficiency | Gateway Course. Upon completion of this semester, students are eligible to enroll in lab classes. |
| | **Credit Hours** | **1** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| CUL 110 | Food Preparation Practical I [1] | 3 | CUL 101 with a grade of "S", HTM 100 with a minimum grade of "C", and Reading Proficiency | See Footnote 1 Below for additional information. |
| CUL 115 | Food Preparation Practical II [1] | 3 | CUL 110 with a minimum grade of "C" and Reading Proficiency | See Footnote 1 Below for additional information. |
| CUL 120 | Food Preparation Practical III [1] | 3 | CUL 115 with a minimum grade of "C" and Reading Proficiency | See Footnote 1 Below for additional information. |
| | **Credit Hours** | **9** | | |
| **Spring** | | | | |
| BAP 150 | Bakeshop Basics for Culinarians | 3 | CUL 101 with a grade of "S", HTM 100 with a minimum grade of "C", and Reading Proficiency | |
| BIO 177 | Food Science | 3 | Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| **Summer** | | | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| HST 102 | United States History from 1865 to the Present (MOTR HIST 102) | 3 | Reading Proficiency or concurrent enrollment in RDG 079 | |
| | **Credit Hours** | **6** | | |
| **Third Year** | | | | |
| **Fall** | | | | |
| CUL 201 | Garde Manger | 2 | BAP 150 and CUL 120 with minimum grades of "C" and Reading Proficiency | |
| CUL 205 | Global Cuisine | 2 | BAP 150 and CUL 120 with minimum grades of "C" and Reading Proficiency | |
| CUL 210 | Nutritional Cooking | 2 | DIT 115, BAP 150, and CUL 120 with minimum grades of "C" and Reading Proficiency | |
| CUL 215 | American Regional Cuisine | 2 | CUL 120 and BAP 150 with minimum grades of "C" and Reading Proficiency | |
| CUL 220 | Introduction to a la Carte Cooking | 2 | BAP 150 and CUL 120 with minimum grades of "C", and Reading Proficiency | |
| | **Credit Hours** | **10** | | |
| **Spring** | | | | |
| HTM 200 | Procurement in the Hospitality Industry | 3 | HTM 100 and MTH 108 or higher with minimum grades of "C", and Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| HTM 210 | Hospitality Financial Planning and Cost Control | 3 | HTM 100 and MTH 108 or higher with minimum grades of "C", and Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| **Summer** | | | | |
| COM 101 | Oral Communication I (MOTR COMM 100) | 3 | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | |
| | **Credit Hours** | **3** | | |
| **Fourth Year** | | | | |
| **Fall** | | | | |
| HTM 230 | Bar and Beverage Management | 3 | HTM 100 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **3** | | |
| **Spring** | | | | |
| CUL 250 | Culinary Arts Capstone | 6 | BAP 150, CUL 201, CUL 205, CUL 210, CUL 215, CUL 220, HTM 200, HTM 210 all with a minimum grade of "C", and Reading Proficiency | Apply for graduation. |
| HTM 120 | Supervision and Leadership in the Hospitality Industry | 3 | HTM 100 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **9** | | |
| | **Total Credit Hours** | **65** | | |

[1] Students are asked to enroll in CUL 110, CUL 115, and CUL 120 in the same semester. Please contact Culinary Arts Coordinator, Ellen Piazza for course entry advisement **epiazza@stlcc.edu**.

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Cybersecurity: AAS

**Associate in Applied Science | 60 credit hours minimum**

**School of Business and Computer Information Technology**

**Program Website (https://stlcc.edu/programs-academics/pathways/s-t-e-m/cybersecurity/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

The Associate in Applied Science in Cybersecurity provides the foundation courses to prepare IT students to apply for entry level information assurance/security technician/practitioners positions that support planning, implementing, upgrading, and monitoring security measures for the protection of computer networks and information systems. Students, through in-depth theory and extensive hands-on activities, will develop skills to ensure appropriate security controls are in place that will safeguard digital files and vital electronic infrastructure, and will develop skills to respond to computer security breaches and viruses. This

program includes instruction in computer architecture, programming, and systems analysis; networking; cryptography; security system design; applicable law and regulations; risk assessment and policy analysis; contingency planning; user access issues; investigation techniques; and troubleshooting.

Pre-employment background screening is required for any candidate seeking employment in the cybersecurity field.

To be successful, persons interested in the program should possess a strong foundation in computer hardware/software troubleshooting skills, equivalent to the CompTIA A+ certification.

**Locations.** This program is offered at Forest Park by taking a mixture of face-to-face and online courses.

**Related Programs.** The Computer and Information Technology Department offers a certificate in the following area:

- **Cybersecurity, Certificate of Proficiency (p. 169)**

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. design cybersecurity solutions with current industry standards.
2. communicate as a team to design and develop cybersecurity technologies.
3. use cybersecurity methodologies to develop a business continuity plan.
4. use current digital forensics tools.
5. employ methodologies for data validation and subsequent responses consistent with secure coding principles.
6. use permissions to control and secure access to files.
7. employ operating system logging services for auditing purposes.
8. explain how to secure data as it is traveling across the network.
9. use networking tools.
10. explain effective business continuity plans.

# Program of Study

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

| Code | Title | Credit Hours |
|---|---|---|
| **General Education** | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 |
| ENG 102 | College Composition II (MOTR ENGL 200) | 3 |
| or ENG 103 | Report Writing (MOTR ENGL 110) | |
| **Select one of the following math courses:** | | **3** |
| MTH 180 | Introductory Statistics (MOTR MATH 110) (or MTH 180S) (Recommended) | |
| MTH 161 | Quantitative Reasoning (MOTR MATH 120) (or MTH 161S) | |
| MTH 160 | Precalculus Algebra (MOTR MATH 130) (or MTH 160S) (or higher) | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 |
| COM 103 | Small Group Communication (MOTR COMM 125) | 3 |
| or COM 112 | Argumentation and Debate (MOTR COMM 220) | |
| or COM 201 | Interpersonal Communication (MOTR COMM 120) | |
| or PSY 200 | General Psychology (MOTR PSYC 100) | |
| or PHL 102 | Introduction to Logic (MOTR PHIL 101) | |

| | | |
|---|---|---|
| **Program Requirements** | | |
| IT 100 | Introduction to Cybersecurity | 1 |
| IS 153 | C# Programming I | 4 |
| or IS 187 | Java Programming I | |
| or IS 166 | C# and Java Programming I | |
| IS 165 | Computer Applications-Microsoft Project | 1 |
| IS 225 | Database Management | 4 |
| IS 280 | Python | 3 |
| IS 229 | Unix/Linux I | 3 |
| IS 237 | Fundamentals of Information Assurance/Security - CompTIA Security+ | 3 |
| IT 234 | Principles of Incident Response and Disaster Recovery | 3 |
| IT 101 | Cisco Networking Academy I: Introduction to Networks | 5 |
| IT 120 | Enterprise Security Management | 3 |
| IT 121 | Secure E-Commerce | 3 |
| IS 264 | Unix/Linux II | 3 |
| IT 212 | Ethical Hacking | 3 |
| IT 214 | Systems Security Engineering | 3 |
| IT 216 | Digital Forensics | 3 |
| **Total Credit Hours** | | **60** |

# Full-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| IS 153<br>or 187<br>or 166 | C# Programming I<br>or Java Programming I<br>or C# and Java Programming I | 4 | Reading Proficiency | |
| IS 229 | Unix/Linux I | 3 | Reading Proficiency | Critical Course |
| IT 100 | Introduction to Cybersecurity | 1 | Reading Proficiency | Exploratory Course |
| Select one of the following: | | 3 | | MTH 180 is highly recommended. |
| MTH 180 | Introductory Statistics (MOTR MATH 110) | | Satisfactory scores on placement test, and Reading Proficiency | |
| MTH 161 | Quantitative Reasoning (MOTR MATH 120) | | Satisfactory score on placement test and Reading Proficiency | |
| MTH 160 | Precalculus Algebra (MOTR MATH 130) (or higher) | | MTH 140 (or MTH 140S) with a minimum grade of "C" or satisfactory score on placement test, and Reading Proficiency | |
| IS 165 | Computer Applications-Microsoft Project | 1 | Reading Proficiency | Offered online only |
| | **Credit Hours** | **12** | | |
| **Spring** | | | | |
| IS 237 | Fundamentals of Information Assurance/Security - CompTIA Security + | 3 | IT 102 or IS 229 with a minimum grade of "C" and Reading Proficiency | Gateway Course |

| | | | | |
|---|---|---|---|---|
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| IS 280 | Python | 3 | Reading Proficiency | |
| IS 264 | Unix/Linux II | 3 | IS 229 with a minimum grade of "C" and Reading Proficiency | Offered in Fall and Spring |
| | **Credit Hours** | **12** | | |
| **Summer** | | | | |
| IT 101 | Cisco Networking Academy I: Introduction to Networks | 5 | Reading Proficiency | |
| Choose one of the following: | | 3 | | |
| COM 103 | Small Group Communication (MOTR COMM 125) | | Reading Proficiency | |
| COM 112 | Argumentation and Debate (MOTR COMM 220) | | Reading Proficiency | |
| COM 201 | Interpersonal Communication (MOTR COMM 120) | | Reading Proficiency | |
| PHL 102 | Introduction to Logic (MOTR PHIL 101) | | Reading Proficiency | |
| PSY 200 | General Psychology (MOTR PSYC 100) | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| | **Credit Hours** | **8** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| IT 212 | Ethical Hacking | 3 | IS 229 and IS 237 with minimum grades of "C", and Reading Proficiency | Offered in Fall Only |
| IT 214 | Systems Security Engineering | 3 | IS 237 with a minimum grade of "C" and Reading Proficiency | Offered in Fall Only |
| IT 234 | Principles of Incident Response and Disaster Recovery | 3 | IS 237 with a minimum grade of "C" and Reading Proficiency | Offered in Fall only |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | |
| ENG 102<br>or 103 | College Composition II (MOTR ENGL 200)<br>or Report Writing (MOTR ENGL 110) | 3 | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| IS 225 | Database Management | 4 | Reading Proficiency | |
| IT 216 | Digital Forensics | 3 | IS 229 and IS 237 with minimum grades of "C" and Reading Proficiency | Offered in Spring Only |
| IT 120 | Enterprise Security Management | 3 | IS 237 with a minimum grade of "C" and Reading Proficiency | Offered in Spring only |
| IT 121 | Secure E-Commerce | 3 | IS 229 and IS 237, both with a minimum grade of "C" and Reading Proficiency | Offered in Spring only |
| | **Credit Hours** | **13** | | |
| | **Total Credit Hours** | **60** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Part-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| IS 229 | Unix/Linux I | 3 | Reading Proficiency | Critical Course |
| IT 100 | Introduction to Cybersecurity | 1 | Reading Proficiency | Exploratory Course |
| Select one of the following: | | 3 | | MTH 180 is highly recommended. |
| MTH 180 | Introductory Statistics (MOTR MATH 110) | | Satisfactory scores on placement test, and Reading Proficiency | |
| MTH 161 | Quantitative Reasoning (MOTR MATH 120) | | Satisfactory score on placement test and Reading Proficiency | |
| MTH 160 | Precalculus Algebra (MOTR MATH 130) (or higher) | | MTH 140 (or MTH 140S) with a minimum grade of "C" or satisfactory score on placement test, and Reading Proficiency | |
| IS 165 | Computer Applications-Microsoft Project | 1 | Reading Proficiency | Offered online only |
| | **Credit Hours** | **8** | | |
| **Spring** | | | | |
| IS 237 | Fundamentals of Information Assurance/Security - CompTIA Security + | 3 | IT 102 or IS 229 with a minimum grade of "C" and Reading Proficiency | Gateway Course |
| IS 264 | Unix/Linux II | 3 | IS 229 with a minimum grade of "C" and Reading Proficiency | Offered in Fall and Spring |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| | **Credit Hours** | **9** | | |

| | | | | |
|---|---|---|---|---|
| **Summer** | | | | |
| IS 153<br>or 187<br>or 166 | C# Programming I<br>or Java Programming I<br>or C# and Java Programming I | 4 | Reading Proficiency | |
| ENG 102<br>or 103 | College Composition II (MOTR ENGL 200)<br>or Report Writing (MOTR ENGL 110) | 3 | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **7** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| IT 212 | Ethical Hacking | 3 | IS 229 and IS 237 with minimum grades of "C", and Reading Proficiency | Offered in Fall only |
| IT 214 | Systems Security Engineering | 3 | IS 237 with a minimum grade of "C" and Reading Proficiency | Offered in Fall only |
| IT 234 | Principles of Incident Response and Disaster Recovery | 3 | IS 237 with a minimum grade of "C" and Reading Proficiency | Offered in Fall only |
| | **Credit Hours** | **9** | | |
| **Spring** | | | | |
| IT 216 | Digital Forensics | 3 | IS 229 and IS 237 with minimum grades of "C" and Reading Proficiency | Offered in Spring only |
| IT 120 | Enterprise Security Management | 3 | IS 237 with a minimum grade of "C" and Reading Proficiency | Offered in Spring only |
| IT 121 | Secure E-Commerce | 3 | IS 229 and IS 237, both with a minimum grade of "C" and Reading Proficiency | Offered in Spring only |
| | **Credit Hours** | **9** | | |
| **Summer** | | | | |
| IS 225 | Database Management | 4 | Reading Proficiency | |
| Choose one of the following: | | 3 | | |
| COM 103 | Small Group Communication (MOTR COMM 125) | | Reading Proficiency | |
| COM 112 | Argumentation and Debate (MOTR COMM 220) | | Reading Proficiency | |
| COM 201 | Interpersonal Communication (MOTR COMM 120) | | Reading Proficiency | |
| PHL 102 | Introduction to Logic (MOTR PHIL 101) | | Reading Proficiency | |
| PSY 200 | General Psychology (MOTR PSYC 100) | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| | **Credit Hours** | **7** | | |
| **Third Year** | | | | |
| **Fall** | | | | |
| IS 280 | Python | 3 | Reading Proficiency | |
| IT 101 | Cisco Networking Academy I: Introduction to Networks | 5 | Reading Proficiency | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | |
| | **Credit Hours** | **11** | | |
| | **Total Credit Hours** | **60** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Articulation Agreements

Articulation agreements are formal partnerships between St. Louis Community College and colleges or universities that outline how completed coursework transfers toward a specific degree program. These agreements help students continue their education by ensuring the credits earned at STLCC apply toward bachelor's degree requirements at the partner institution. STLCC continually collaborates with colleges and universities to establish new agreements that support a smooth transfer process.

Below is a list of current partner institutions with active articulation agreements for the Associate in Applied Science - Cybersecurity. If a program does not have a linked plan available, students should meet with an academic advisor to obtain the appropriate plan and guidance.

## Webster University

- Computer Science with an Emphasis in Cybersecurity, Bachelor of Science

# Cybersecurity: CP

**Certificate of Proficiency | 45 credit hours minimum**

**School of Business and Computer Information Technology**

**Program Website (https://stlcc.edu/programs-academics/pathways/s-t-e-m/cybersecurity/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

The Cybersecurity Certificate of Proficiency provides the foundation courses to prepare IT students to apply for entry level information assurance/security technician/practitioners positions that support planning, implementing, upgrading, and monitoring security measures for the protection of computer networks and information systems. Students, through in-depth theory and extensive hands-on activities, will develop skills to ensure appropriate security controls are in place that will safeguard digital files and vital electronic infrastructure, and will develop skills to respond to computer security breaches and viruses. This program includes instruction in computer architecture, programming, and systems analysis; networking; cryptography; security system design; applicable law and regulations; risk assessment and policy analysis; contingency planning; user access issues; investigation techniques; and troubleshooting.

Employers prefer cybersecurity workers who have a college degree. The Cybersecurity Certificate of Proficiency is recommended for those that already possess an AAS or higher college degree in any area and wish to obtain the cybersecurity skills. The Cybersecurity AAS is recommended for those who do not yet possess a college degree. Persons interested in the program should possess a strong foundation in computer hardware/software troubleshooting skills, equivalent to the CompTIA A+ certification.

Pre-employment background screening is required for any candidate seeking employment in the cybersecurity field.

**Locations.** This program is offered at Forest Park by taking a mixture of face-to-face and online courses.

**Related Programs.** The Computer and Information Technology Department offers an associate in the following area:

- **Cybersecurity, Associate in Applied Science (p. 163)**

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. design cybersecurity solutions with current industry standards.
2. communicate as a team to design and develop cybersecurity technologies.
3. use cybersecurity methodologies to develop a business continuity plan.
4. use current digital forensics tools.
5. employ methodologies for data validation and subsequent responses consistent with secure coding principles.
6. use permissions to control and secure access to files.
7. employ operating system logging services for auditing purposes.
8. explain how to secure data as it is traveling across the network.
9. use networking tools.
10. explain effective business continuity plans.

# Program of Study

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

| Code | Title | Credit Hours |
|---|---|---|
| **Program Requirements** | | |
| IT 100 | Introduction to Cybersecurity | 1 |
| IS 153 | C# Programming I | 4 |
| or IS 187 | Java Programming I | |
| or IS 166 | C# and Java Programming I | |
| IS 165 | Computer Applications-Microsoft Project | 1 |
| IS 225 | Database Management | 4 |
| IS 280 | Python | 3 |
| IS 229 | Unix/Linux I | 3 |
| IS 237 | Fundamentals of Information Assurance/Security - CompTIA Security+ | 3 |
| IT 234 | Principles of Incident Response and Disaster Recovery | 3 |
| IT 101 | Cisco Networking Academy I: Introduction to Networks | 5 |
| IT 120 | Enterprise Security Management | 3 |
| IT 121 | Secure E-Commerce | 3 |
| IS 264 | Unix/Linux II | 3 |
| IT 212 | Ethical Hacking | 3 |
| IT 214 | Systems Security Engineering | 3 |
| IT 216 | Digital Forensics | 3 |
| **Total Credit Hours** | | **45** |

# Academic Plan

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| IS 153<br>or 187<br>or 166 | C# Programming I<br>or Java Programming I<br>or C# and Java Programming I | 4 | Reading Proficiency | |
| IS 229 | Unix/Linux I | 3 | Reading Proficiency | Critical Course |
| IT 100 | Introduction to Cybersecurity | 1 | Reading Proficiency | Exploratory Course |
| IS 165 | Computer Applications-Microsoft Project | 1 | Reading Proficiency | Offered Online Only |
| IS 280 | Python | 3 | Reading Proficiency | |
| | **Credit Hours** | **12** | | |
| **Spring** | | | | |
| IS 237 | Fundamentals of Information Assurance/Security - CompTIA Security + | 3 | IT 102 or IS 229 with a minimum grade of "C" and Reading Proficiency | Gateway Course |
| IT 101 | Cisco Networking Academy I: Introduction to Networks | 5 | Reading Proficiency | |
| IS 225 | Database Management | 4 | Reading Proficiency | |
| | **Credit Hours** | **12** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| IS 264 | Unix/Linux II | 3 | IS 229 with a minimum grade of "C" and Reading Proficiency | Offered in Fall and Spring |
| IT 212 | Ethical Hacking | 3 | IS 229 and IS 237 with minimum grades of "C", and Reading Proficiency | Offered in Fall only |
| IT 214 | Systems Security Engineering | 3 | IS 237 with a minimum grade of "C" and Reading Proficiency | Offered in Fall only |
| IT 234 | Principles of Incident Response and Disaster Recovery | 3 | IS 237 with a minimum grade of "C" and Reading Proficiency | Offered in Fall only |
| | **Credit Hours** | **12** | | |
| **Spring** | | | | |
| IT 216 | Digital Forensics | 3 | IS 229 and IS 237 with minimum grades of "C" and Reading Proficiency | Offered in Spring only |
| IT 120 | Enterprise Security Management | 3 | IS 237 with a minimum grade of "C" and Reading Proficiency | Offered in Spring only |
| IT 121 | Secure E-Commerce | 3 | IS 229 and IS 237, both with a minimum grade of "C" and Reading Proficiency | Offered in Spring only |
| | **Credit Hours** | **9** | | |
| | **Total Credit Hours** | **45** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Part-Time Academic Plan

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| IS 153<br>or 187<br>or 166 | C# Programming I<br>or Java Programming I<br>or C# and Java Programming I | 4 | Reading Proficiency | |
| IS 229 | Unix/Linux I | 3 | Reading Proficiency | Gateway Course, Critical Course |
| IT 100 | Introduction to Cybersecurity | 1 | Reading Proficiency | Exploratory Course |
| IS 165 | Computer Applications-Microsoft Project | 1 | Reading Proficiency | Offered Online Only |
| | **Credit Hours** | **9** | | |
| **Spring** | | | | |
| IS 237 | Fundamentals of Information Assurance/Security - CompTIA Security + | 3 | IT 102 or IS 229 with a minimum grade of "C" and Reading Proficiency | Critical Course |
| IT 101 | Cisco Networking Academy I: Introduction to Networks | 5 | Reading Proficiency | |
| | **Credit Hours** | **8** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| IS 264 | Unix/Linux II | 3 | IS 229 with a minimum grade of "C" and Reading Proficiency | Offered in Fall and Spring |
| IT 212 | Ethical Hacking | 3 | IS 229 and IS 237 with minimum grades of "C", and Reading Proficiency | Offered in Fall Only |
| IT 214 | Systems Security Engineering | 3 | IS 237 with a minimum grade of "C" and Reading Proficiency | Offered in Fall Only |
| | **Credit Hours** | **9** | | |
| **Spring** | | | | |
| IT 216 | Digital Forensics | 3 | IS 229 and IS 237 with minimum grades of "C" and Reading Proficiency | Offered in Spring Only |
| IT 120 | Enterprise Security Management | 3 | IS 237 with a minimum grade of "C" and Reading Proficiency | Offered in Spring Only |
| IT 121 | Secure E-Commerce | 3 | IS 229 and IS 237, both with a minimum grade of "C" and Reading Proficiency | Offered in Spring Only |
| | **Credit Hours** | **9** | | |

| | | | | |
|---|---|---|---|---|
| **Third Year** | | | | |
| **Fall** | | | | |
| IT 234 | Principles of Incident Response and Disaster Recovery | 3 | IS 237 with a minimum grade of "C" and Reading Proficiency | Offered in Fall Only |
| IS 280 | Python | 3 | Reading Proficiency | |
| IS 225 | Database Management | 4 | Reading Proficiency | |
| | **Credit Hours** | **10** | | |
| | **Total Credit Hours** | **45** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Database Developer: CP

**Certificate of Proficiency | 36 credit hours minimum**

**School of Business and Computer Information Technology**

**Program Website (https://stlcc.edu/programs-academics/pathways/s-t-e-m/database-developer/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

Database Developer Certificate of Proficiency is a comprehensive program designed to equip the student with the skills and knowledge to become a successful database developer. Through this program, students will:

- master the fundamentals of database design, implementation, and management, covering relational, NoSQL, and object-oriented databases.
- learn to harness the power of databases and related software programs to create complex searchable databases (warehousing) and utilize analytical search tools for data extraction and mining.
- apply statistical models to uncover patterns and trends in data, critically evaluate analytical findings, and create insightful data visualizations using industry-standard tools.
- embrace the cloud with specialized courses on cloud database management, focusing on platforms like AWS and Azure.
- gain expertise in configuration, optimization, and security of cloud-based databases.

This program equips the student for a range of exciting career opportunities in database development, data analysis, and cloud computing.

**Locations.** This program is offered in its entirety at Meramec.

**Related Programs.** The Computer and Information Technology Department offers an associate in the following area:

- **Software Developer, Associate in Applied Science (p. 387)**

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program “St. Louis Community College” and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. explain fundamental concepts of database management systems (DBMS) and their role in the modern digital world.
2. develop data-centric applications using analytical search tools to extract, analyze, and manipulate data within a database.
3. manage cloud and hybrid database systems.
4. implement security measures and best practices to comply with industry standards.
5. create advanced data visualizations (interactive dashboards, presentations) using visualization techniques and tools to communicate data insights effectively.
6. perform advanced visualization techniques, interactive dashboards, and visual presentations.
7. use business applications, programming tools, and software applications to design and develop database-related projects.

# Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Program Requirements** | | |
| CIT 112 | Introduction to Computer Science | 3 |
| CIT 151 | Computer Applications in Business | 4 |
| CIT 180 | Programming I with Python | 3 |
| CIT 166 | Programming I with C# and Java | 4 |
| CIT 125 | Introduction to Databases | 3 |
| CIT 285 | Principles of Data Analytics | 3 |
| CIT 155 | Cloud Database Management | 4 |
| CIT 141 | Introduction to UX/UI Design | 3-4 |
| or CIT 291 | Workplace Learning: Computer and Information Technology | |
| CIT 160 | Introduction to Data Visualization | 3 |
| WEB 101 | Introduction to Web Development | 3 |
| CIT 257 | Advanced Data Analytics | 3 |
| **Total Credit Hours** | | **36-37** |

# Full-Time Academic Plan

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| CIT 112 | Introduction to Computer Science | 3 | Reading Proficiency | Exploratory Course |
| CIT 151 | Computer Applications in Business | 4 | Concurrent or prior enrollment in IS 122 or IS 123 or IT 102 or HIM 102 or CIT 112 with a minimum grade of "C" or equivalent experience and Reading Proficiency | |
| CIT 180 | Programming I with Python | 3 | Reading Proficiency | Gateway Course |
| CIT 125 | Introduction to Databases | 3 | Reading Proficiency | Critical Course |
| | **Credit Hours** | **13** | | |
| **Spring** | | | | |
| CIT 285 | Principles of Data Analytics | 3 | CIT 125 with a minimum grade of "C" and Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| WEB 101 | Introduction to Web Development | 3 | Reading Proficiency | |
| CIT 155 | Cloud Database Management | 4 | CIT 125 and CIT 151 with minimum grades of "C", and Reading Proficiency | Critical Course |
| CIT 166 | Programming I with C# and Java | 4 | Reading Proficiency | Gateway Course |
| | **Credit Hours** | **14** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| Choose one of the following: | | 3-4 | | |
| CIT 141 | Introduction to UX/UI Design | | Reading Proficiency | |
| CIT 291 | Workplace Learning: Computer and Information Technology | | Enrollment in a CIT or IT program, department approval, and Reading Proficiency | |
| CIT 160 | Introduction to Data Visualization | 3 | Concurrent or prior enrollment in CIT 125 and CIT 151 with minimum grade of "C" and Reading Proficiency | |
| CIT 257 | Advanced Data Analytics | 3 | CIT 125, CIT 285, and CIT 155 with minimum grades of "C", and Reading Proficiency | |
| | **Credit Hours** | **9-10** | | |
| | **Total Credit Hours** | **36-37** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Part-Time Academic Plan

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| CIT 112 | Introduction to Computer Science | 3 | Reading Proficiency | Exploratory Course |
| CIT 151 | Computer Applications in Business | 4 | Concurrent or prior enrollment in IS 122 or IS 123 or IT 102 or HIM 102 or CIT 112 with a minimum grade of "C" or equivalent experience and Reading Proficiency | |
| | **Credit Hours** | **7** | | |
| **Spring** | | | | |
| CIT 125 | Introduction to Databases | 3 | Reading Proficiency | Critical Course |

| | | | | |
|---|---|---|---|---|
| CIT 180 | Programming I with Python | 3 | Reading Proficiency | Gateway Course |
| | **Credit Hours** | **6** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| CIT 285 | Principles of Data Analytics | 3 | CIT 125 with a minimum grade of "C" and Reading Proficiency | |
| WEB 101 | Introduction to Web Development | 3 | Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| **Spring** | | | | |
| CIT 155 | Cloud Database Management | 4 | CIT 125 and CIT 151 with minimum grades of "C", and Reading Proficiency | Critical Course |
| CIT 166 | Programming I with C# and Java | 4 | Reading Proficiency | Gateway Course |
| | **Credit Hours** | **8** | | |
| **Third Year** | | | | |
| **Fall** | | | | |
| CIT 160 | Introduction to Data Visualization | 3 | Concurrent or prior enrollment in CIT 125 and CIT 151 with minimum grade of "C" and Reading Proficiency | |
| CIT 257 | Advanced Data Analytics | 3 | CIT 125, CIT 285, and CIT 155 with minimum grades of "C", and Reading Proficiency | |
| Choose one of the following: | | 3-4 | | |
| CIT 141 | Introduction to UX/UI Design | | Reading Proficiency | |
| CIT 291 | Workplace Learning: Computer and Information Technology | | Enrollment in a CIT or IT program, department approval, and Reading Proficiency | |
| | **Credit Hours** | **9-10** | | |
| | **Total Credit Hours** | **36-37** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Deaf Communication Studies: American Sign Language - CS

**Certificate of Specialization| 24 credit hours minimum**

**School of Communication, Design, and Creative Arts**

**Program Website (https://stlcc.edu/programs-academics/pathways/a-d-h-c/deaf-communications-studies-asl/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

## Program Description:

The Certificate of Specialization in Deaf Communication Studies: American Sign Language teaches introductory and intermediate American Sign Language (ASL), the native, indigenous language of the North American Deaf community. Graduates of the ASL Certificate program will be able to carry on extended conversations in ASL on everyday topics, choose conceptually accurate signs to express their thoughts, articulate the signs correctly, order the signs into ASL sentence patterns, and receptively comprehend ASL at an equivalent level. The ASL Certificate is ideal for hearing people who have Deaf family members, friends, or co-workers, for those who serve Deaf clients, for Deaf individuals who want to learn to communicate in sign language, and for students who need to learn ASL before enrolling in the Interpreter Education Program.

**Locations.** This program is offered in its entirety at Florissant Valley and Wildwood.

**Related Programs.** The Deaf Communication Studies Department offers an associate in the following area:

- **Deaf Communication Studies: Interpreter Education, Associate in Applied Science (p. 179)**

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program “St. Louis Community College” and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

## At the completion of the program, students are expected to:

1. converse for five to ten minutes on everyday topics such as introductions, self-care, home, family, daily schedules and activities, interests, and simple stories.
2. incorporate conceptually accurate intermediate ASL vocabulary including classifiers and idioms, spatialization, directional verbs, and role shifting to convey their thoughts.
3. articulate signs on the hands, face, and body.
4. construct a variety of ASL sentence types.
5. demonstrate receptive and expressive fingerspelling.
6. employ the standard basic terminology of ASL linguistics.
7. demonstrate basic knowledge of the US Deaf community including origins of ASL, Deaf education, assistive technology, Deaf communication modes, and issues in Deafness.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Program Requirements** | | |
| DCS 104 | American Sign Language I (MOTR LANG 105) | 4 |
| DCS 105 | American Sign Language II (MOTR LANG 106) | 4 |
| DCS 107 | Fingerspelling and Numbers | 3 |
| DCS 108 | The Interpreting Profession | 2 |
| DCS 111 | American Sign Language Linguistics | 3 |
| DCS 115 | Introduction to Deaf Culture | 3 |
| DCS 116 | American Sign Language Semantics | 3 |

| | | |
|---|---|---|
| DCS 124 | Concept Associations in American Sign Language | 2 |
| **Total Credit Hours** | | **24** |

# Full-Time Academic Plan

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| DCS 104 | American Sign Language I (MOTR LANG 105) | 4 | Reading Proficiency | Exploratory Course, Gateway Course, Critical Course |
| DCS 111 | American Sign Language Linguistics | 3 | Concurrent or prior enrollment in DCS 104 with a minimum grade of "C" and Reading Proficiency | |
| DCS 115 | Introduction to Deaf Culture | 3 | Reading Proficiency | Exploratory Course |
| DCS 124 | Concept Associations in American Sign Language | 2 | Concurrent or prior enrollment in DCS 104 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **12** | | |
| **Spring** | | | | |
| DCS 105 | American Sign Language II (MOTR LANG 106) | 4 | DCS 104 with a minimum grade of "C" and Reading Proficiency | |
| DCS 107 | Fingerspelling and Numbers | 3 | DCS 104 with a minimum grade of "C" and Reading Proficiency | |
| DCS 108 | The Interpreting Profession | 2 | Reading Proficiency | |
| DCS 116 | American Sign Language Semantics | 3 | Concurrent or prior enrollment in DCS 105 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **12** | | |
| | **Total Credit Hours** | **24** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Deaf Communication Studies: Interpreter Education - AAS

**Associate in Applied Science | 60 credit hours minimum**

**School of Communication, Design, and Creative Arts**

**Program Website (https://stlcc.edu/programs-academics/pathways/a-d-h-c/deaf-communication-studies-interpreter-education/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

## Program Description:

Deaf Communication Studies: Interpreter Education Program, Associate in Applied Science degree provides the instruction and experience necessary to develop ASL-English interpreting skills including sight translation, voice-to-sign interpretation and transliteration, and sign-to-voice interpretation and transliteration. The program includes theory of interpretation, ASL and English skills development, experiential practice interpreting a broad range of general topics and basic specialized topics, Deaf history and culture, and professional ethics. Graduates of the program will be prepared to pass the Missouri Interpreter Certification System Test of English Proficiency and the interpreter certification Basic performance evaluation to become entry-level professional interpreters. Students are admitted into the program after demonstrating intermediate ASL skills and a working knowledge of ASL linguistics.

**Locations.** This program is offered in its entirety at Florissant Valley.

**Licensure.** This program meets the educational requirements for state licensure in the following states: Missouri and Illinois. Students interested in pursuing licensure in a different state should contact the program coordinator for more information.

**Related Programs.** The Deaf Communication Studies Department offers a certificate in the following area:

- **Deaf Communication Studies: American Sign Language, Certificate of Specialization (p. 177)**

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

## At the completion of the program, students are expected to:

1. translate 250 words of printed English to ASL in 7 minutes with 75% accuracy.
2. interpret 6-7 minutes of spoken English (approximately 110 words per minute) to ASL with 75% accuracy.
3. interpret 6-7 minutes of ASL (approximately equivalent to 110 words per minute) to spoken English with 75% accuracy.
4. transliterate 6-7 minutes of spoken English (110 words per minute) to Conceptually Accurate Signed English with 75% accuracy.
5. compare and contrast mainstream hearing culture and Deaf culture in terms of history, challenges, self-advocacy, and self-efficacy.
6. demonstrate an effective process for making ethical decisions.

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **General Education** | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 |
| ENG 102 | College Composition II (MOTR ENGL 200) | 3 |
| or ENG 103 | Report Writing (MOTR ENGL 110) | |
| **Select one of the following math courses:** | | **3** |
| MTH 161 | Quantitative Reasoning (MOTR MATH 120) (or MTH 161S) (Recommended) | |
| MTH 180 | Introductory Statistics (MOTR MATH 110) (or MTH 180S) | |

| | | |
|---|---|---|
| MTH 160 | Precalculus Algebra (MOTR MATH 130) (or MTH 160S) (or higher) | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 |
| THT 108 | Acting I (MOTR PERF 100) | 3 |
| **Program Requirements** | | |
| DCS 106 | American Sign Language III | 4 |
| DCS 109 | Grammar and Vocabulary for Interpreters | 3 |
| DCS 121 | American Sign Language IV | 4 |
| DCS 122 | Translation | 3 |
| DCS 206 | Interpreting I | 3 |
| DCS 210 | Sign to Voice Interpreting I | 3 |
| DCS 211 | Specialized Interpreting | 3 |
| DCS 212 | Deaf History and Culture | 3 |
| DCS 213 | Professional Issues and Ethics | 2 |
| DCS 216 | Educational Interpreting | 3 |
| DCS 218 | Interpreter Field Experience | 2 |
| DCS 219 | Workplace Learning: DCS | 3 |
| DCS 220 | Interpreting II | 3 |
| DCS 221 | Sign to Voice Interpreting II | 3 |
| DCS 222 | Advanced Interpreting | 3 |
| **Total Credit Hours** | | **60** |

# Full-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| DCS 106 | American Sign Language III | 4 | DCS 105 with a minimum grade of "C" and Reading Proficiency | Exploratory Course |
| DCS 109 | Grammar and Vocabulary for Interpreters | 3 | Concurrent or prior enrollment DCS 106 with a minimum grade of "C", concurrent or prior enrollment in ENG 101 with a minimum grade of "C" , and Reading Proficiency | BEI Test of English Proficiency, Gateway Course and Critical Course |
| DCS 122 | Translation | 3 | Concurrent or prior enrollment in DCS 106 with a minimum grade of "C", concurrent or prior enrollment in DCS 109 with a minimum grade of "C", and Reading Proficiency | Gateway and Critical Course |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| THT 108 | Acting I (MOTR PERF 100) | 3 | Reading Proficiency | |
| | **Credit Hours** | **16** | | |

| | | | | |
|---|---|---|---|---|
| **Spring** | | | | |
| DCS 121 | American Sign Language IV | 4 | DCS 106 with a minimum grade of "C" and Reading Proficiency | |
| DCS 206 | Interpreting I | 3 | DCS 122 with a minimum grade of "C" and Reading Proficiency | |
| DCS 210 | Sign to Voice Interpreting I | 3 | DCS 122 with a minimum grade of "C" and Reading Proficiency | |
| ENG 102<br>or 103 | College Composition II (MOTR ENGL 200)<br>or Report Writing (MOTR ENGL 110) | 3 | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **13** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| DCS 220 | Interpreting II | 3 | DCS 206 with a minimum grade of "C" and Reading Proficiency | |
| DCS 221 | Sign to Voice Interpreting II | 3 | DCS 210 with a minimum grade of "C" and Reading Proficiency | |
| DCS 211 | Specialized Interpreting | 3 | DCS 206 with minimum grade of "C" and Reading Proficiency | |
| DCS 216 | Educational Interpreting | 3 | DCS 206 with a minimum grade of "C" and Reading Proficiency | |
| Select one of the following: | | 3 | | MTH 161 is highly recommended. |
| MTH 161 | Quantitative Reasoning (MOTR MATH 120) (or MTH 161S) | | Satisfactory score on placement test and Reading Proficiency | |
| MTH 180 | Introductory Statistics (MOTR MATH 110) | | Satisfactory scores on placement test, and Reading Proficiency | |
| MTH 160 | Precalculus Algebra (MOTR MATH 130) (or higher) | | MTH 140 (or MTH 140S) with a minimum grade of "C" or satisfactory score on placement test, and Reading Proficiency | |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| DCS 212 | Deaf History and Culture | 3 | DCS 121 with a minimum grade of "C" and Reading Proficiency | |
| DCS 213 | Professional Issues and Ethics | 2 | DCS 220 with a minimum grade of "C" and Reading Proficiency | |
| DCS 218 | Interpreter Field Experience | 2 | Concurrent or prior enrollment in DCS 213 and DCS 222 with a minimum grade of "C" and Reading Proficiency | |
| DCS 222 | Advanced Interpreting | 3 | DCS 211, DCS 216, DCS 220, and DCS 221 with minimum grades of "C" and Reading Proficiency | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | |
| | **Credit Hours** | **13** | | |
| **Summer** | | | | |
| DCS 219 | Workplace Learning: DCS | 3 | DCS 213 and DCS 218 with minimum grades of "C" , and Reading Proficiency | BEI Performance Evaluation |
| | **Credit Hours** | **3** | | |
| | **Total Credit Hours** | **60** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Articulation Agreements

Articulation agreements are formal partnerships between St. Louis Community College and colleges or universities that outline how completed coursework transfers toward a specific degree program. These agreements help students continue their education by ensuring the credits earned at STLCC apply toward bachelor's degree requirements at the partner institution. STLCC continually collaborates with colleges and universities to establish new agreements that support a smooth transfer process.

Below is a list of current partner institutions with active articulation agreements for the Associate in Applied Science - Deaf Communication Studies: Interpreter Education. If a program does not have a linked plan available, students should meet with an academic advisor to obtain the appropriate plan and guidance.

## William Woods University

- Interpreter Studies in ASL-Deaf Communications, Bachelor of Arts
- Interpreter Studies in ASL-Deaf Communications, Bachelor of Science

# Dental Hygiene: AAS

**Associate in Applied Science | 73 credit hours minimum**

**School of Health Professions**

**Program Website (https://stlcc.edu/programs-academics/pathways/health-professions/dental-hygiene/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

The dental hygiene program is a 2-year, full time program that begins each fall and is designed to prepare students for licensure and employment in the State of Missouri. The program includes a general education component as well as a concentration in dental hygiene. Graduates of this program may transfer to a four-year college or university to obtain a bachelor of science degree. Acceptance of credits earned is at the discretion of the receiving institution.

Students in this program get real life hands on experience at the public dental hygiene clinic at the Forest Park or Florissant Valley campus. The teaching environment covers classroom work, laboratory experience and actual clinical practice. While enrolled in this program, students will learn how to conduct patient assessments, perform dental diagnostic tests including radiographs, administer local anesthesia, instruct patients in dental disease control procedures, scaling and polishing procedures for the removal of hard and soft deposits, dental health procedures and more. Persons interested in this program should enjoy working with people from all age groups. An interest in biology and the health sciences is important. Good eye/hand coordination and attention to detail is necessary.

Graduates are qualified for positions as dental hygienists and may serve as clinical practitioners in general or specialty dental practice, or as educators, researchers, administrators, managers, program developers, consultants or dental product sales representatives. Employment is available in the military, health maintenance organizations, community health agencies, private industry, and abroad with the Peace Corps or World Health Organization. This program has many prerequisites based on professional standards. See an advisor for further information.

## Dental Hygiene Program Prerequisites

| Code | Title | Credit Hours |
|---|---|---|
| BIO 207 | Anatomy and Physiology I (MOTR LIFS 150LAP) | 4 |
| BIO 208 | Anatomy and Physiology II | 4 |
| CHM 101 | Fundamentals of Chemistry I (MOTR CHEM 100L) | 5 |
| BIO 203 | General Microbiology I | 4 |

These prerequisites must be satisfied prior to entry into the program. A minimum 3.0 GPA is required in these four science prerequisite courses. In addition, current CPR Basic Life Support with AED certification is required when starting the program and must be maintained throughout the course of the program.

**Locations.** This program is offered in its entirety at Florissant Valley and Forest Park.

**Licensure.** This program meets the educational requirements for state licensure in the following states: Missouri, Illinois, Alaska, and South Dakota. Students interested in pursuing licensure in a different state should contact the program coordinator for more information.

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. apply an ethical code to behavior and decision-making in all aspects of the practice of dental hygiene, demonstrating integrity and honesty.
2. comply with state and federal laws while providing the legal spectrum of dental hygiene care services.
3. ensure the privacy and confidentiality of the patient/client for all dental hygiene encounters and accuracy of patient records.
4. sustain lifelong learning and continuous self-assessment in order to provide contemporary clinical care and facilitate professional growth.
5. communicate professional knowledge effectively with diverse populations, both orally and in writing.
6. promote the values of the dental hygiene profession to the public, and to other health care professionals and organizations.
7. provide care that is humane, empathetic and caring for all individuals and communities without discrimination.
8. obtain, review and update complete histories recognizing differences in populations.
9. recognize medications and health conditions that require modifications in treatment.
10. identify the patient/client at risk for a medical emergency, and be prepared to prevent, or manage such emergencies.
11. identify dental and/or medical risk factors that require dental hygiene interventions.
12. accurately perform a comprehensive dental hygiene examination, analyze and interpret assessment data, and formulate a dental hygiene diagnosis congruent with the diagnosis of the dentist and other health professionals.
13. identify the need for radiographic examination, expose and produce radiographs of diagnostic quality.
14. establish a sequential plan of education, preventive, and therapeutic care based on the dental hygiene diagnosis, using an evidence-based approach.
15. prioritize oral health goals in a thorough case presentation and obtain informed consent.
16. communicate the dental hygiene care plan to the dentist and other collaborative health care team members to determine its appropriateness with the overall plan for total oral health care.
17. perform basic scaling and advanced periodontal debridement procedures without causing trauma to hard and soft tissues.
18. select and administer appropriate preventive and/or therapeutic agents, providing pre- and post- treatment strategies.
19. manage pain and anxiety using accepted clinical and behavior management methods.
20. evaluate and implement accepted methods of disease prevention transmission.
21. review and incorporate work environment procedures to minimize the incidence of occupational hazards.
22. provide screening, referral and educational services that allow and encourage patients/clients to access the resources of the health care system.
23. identify the oral health needs, and risk factors, of individuals/populations and facilitate the development of care strategies appropriate for their value/belief systems.
24. promote the values of oral and general health to the public and empower individuals/populations to accept responsibility for health by adopting and adhering to self-care regimens.
25. identify services and agencies that promote oral health in order to facilitate access to care.
26. provide oral health services in a variety of delivery settings within a community.
27. assess, plan implement and evaluate community-based oral-health programs.
28. evaluate financing of the health care delivery system and its impact on access to oral health care.
29. determine the outcomes of dental hygiene interventions and maintenance programs using appropriate Indices and evaluation methods.
30. evaluate patient/client satisfaction with care received and oral health status achieved.
31. take responsible dental hygiene actions using evidence-based dental hygiene interventions.

32. advance the profession through leadership, service activities and affiliation with professional organizations.
33. identify and evaluate opportunities for pursuing alternative dental hygiene career/practice pathways in non-traditional settings.

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **General Education** | | |
| COM 101 | Oral Communication I (MOTR COMM 100) | 3 |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 |
| PSY 200 | General Psychology (MOTR PSYC 100) | 3 |
| SOC 101 | Introduction to Sociology (MOTR SOCI 101) | 3 |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 |
| **Program Requirements** | | |
| DHY 150 | Concepts in Clinical Dental Hygiene I: Pre-Clinic | 3 |
| DHY 152 | Clinical Dental Hygiene I: Pre-Clinic | 3 |
| DHY 154 | Periodontics I | 2 |
| DHY 155 | Dental Radiology | 2 |
| DHY 156 | Pre-Clinical Dental Radiology | 1 |
| DHY 157 | Oral Anatomy | 2 |
| DHY 158 | Biomedical Science for the Dental Hygienist | 2 |
| DHY 159 | Dental Medical Emergencies | 1 |
| DHY 160 | Concepts in Clinical Dental Hygiene II | 3 |
| DHY 162 | Clinical Dental Hygiene II | 5 |
| DHY 164 | Periodontics II | 2 |
| DHY 167 | Anatomy and Embryology of the Head & Neck | 3 |
| DHY 168 | General and Oral Pathology | 2 |
| DHY 169 | | 1 |
| DHY 172 | Clinical Dental Hygiene: Summer Clinic | 2 |
| DHY 273 | Pain Control | 2 |
| DHY 250 | Concepts in Clinical Dental Hygiene III | 2 |
| DHY 251 | | 1 |
| DHY 252 | Clinical Dental Hygiene III | 5 |
| DHY 257 | Dental Materials | 1 |
| DHY 258 | Dental Pharmacology | 2 |
| DHY 259 | Dental Nutrition and Biochemistry | 2 |
| DHY 260 | Concepts IV: Ethics, Professionalism, and Practice Transition in Dental Hygiene | 2 |
| DHY 262 | Clinical Dental Hygiene IV | 5 |
| DHY 263 | Dental Public Health | 2 |
| **Total Credit Hours** | | **73** |

# Requirements and Prerequisites

In order to be admitted into the program, you must meet all of the program requirements. Official transcripts from high school, GED certification, and all other colleges must be mailed to the Registrar's office (hand-carried and faxed transcripts are not accepted). Upon acceptance to STLCC, students will need to specifically apply to the dental hygiene program. It is highly recommended that students meet with an STLCC dental hygiene program academic advisor to complete an academic plan before applying for the program.

- Acceptance into the dental hygiene program has three requirements:
  - Cumulative GPA: Students must maintain regular student status and a cumulative 2.5 GPA.
  - Science Prerequisite GPA: Four science prerequisite courses must be completed prior to filling out the dental hygiene program application. A minimum of a 3.0 GPA is required for these four science courses: Microbiology (BIO 203); Anatomy & Physiology I (BIO 207); Anatomy & Physiology II (BIO 208); and

Fundamentals of Chemistry I (CHM 101) with a minimum grade of C or better in each course within five years prior to admission. Science prerequisite courses may be retaken one time for a maximum total of two attempts.

- Observation Hours: Students must complete a total of 20 hours observing dental hygienists in private practice in a minimum of two offices, three preferred. This is to be documented on practice letterhead (date, number of hours spent observing, and signature of dentist or dental hygienist). Professional attire is required; no jeans and closed-toe shoes only.

- Program Notification of Acceptance: Offers are sent based on application date, time, and campus preference. We send waitlist updates at the end of each fall and spring semester to ensure students have the most up-to-date information. All communication will be sent to STLCC student email addresses only. It is the responsibility of the student to maintain access to their STLCC student account.
- Additional clinical compliance items and uniform requirements are discussed during orientation. Becoming clinically compliant is not a pre-entry requirement, but it will be important once students are formally admitted to an incoming cohort.
- Graduates of the dental hygiene program are eligible to sit for the clinical and national board exams as well as apply for state licensure. Licensure applications include questions regarding criminal history, drug addiction, and require a Social Security number. Discovery of relevant criminal history or false information may result in denial of the student's application, conditioned licensure, or the filing of disciplinary action against the applicant.

**Dental Hygiene Program Requirements Checklist (https://stlcc.edu/pathways/health/dental-hygiene/requirements-checklist.aspx)**

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

# Prerequisite Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Program Prerequisites - a minimum 3.0 GPA in the following four courses is required for admission to the program** | | |
| CHM 101 | Fundamentals of Chemistry I (MOTR CHEM 100L) | 5 |
| BIO 203 | General Microbiology I | 4 |
| BIO 207 | Anatomy and Physiology I (MOTR LIFS 150LAP) | 4 |
| BIO 208 | Anatomy and Physiology II | 4 |

# Academic Plan

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| COM 101 | Oral Communication I (MOTR COMM 100) | 3 | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| PSY 200 | General Psychology (MOTR PSYC 100) | 3 | Reading Proficiency or concurrent enrollment in RDG 079 | |
| SOC 101 | Introduction to Sociology (MOTR SOCI 101) | 3 | Reading Proficiency or concurrent enrollment in RDG 079 | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | |
| | **Credit Hours** | **15** | | |

| | | | | |
|---|---|---|---|---|
| **Second Year** | | | | |
| **Fall** | | | | |
| DHY 150 | Concepts in Clinical Dental Hygiene I: Pre-Clinic | 3 | BIO 203, BIO 207, BIO 208, and CHM 101 with minimum grades of "C", and Reading Proficiency | |
| DHY 152 | Clinical Dental Hygiene I: Pre-Clinic | 3 | BIO 203, BIO 207, BIO 208, and CHM 101 with minimum grades of "C", and Reading Proficiency | |
| DHY 154 | Periodontics I | 2 | BIO 203, BIO 207, BIO 208, and CHM 101 with minimum grades of "C", and Reading Proficiency | |
| DHY 155 | Dental Radiology | 2 | BIO 203, BIO 207, BIO 208, and CHM 101 with minimum grades of "C", and Reading Proficiency | |
| DHY 156 | Pre-Clinical Dental Radiology | 1 | BIO 203, BIO 207, BIO 208, and CHM 101 with minimum grades of "C", and Reading Proficiency | |
| DHY 157 | Oral Anatomy | 2 | BIO 203, BIO 207, BIO 208, and CHM 101 with minimum grades of "C", and Reading Proficiency | |
| DHY 158 | Biomedical Science for the Dental Hygienist | 2 | BIO 203, BIO 207, BIO 208, and CHM 101 with minimum grades of "C", and Reading Proficiency | |
| DHY 159 | Dental Medical Emergencies | 1 | BIO 203, BIO 207, BIO 208, and CHM 101 with minimum grades of "C", and Reading Proficiency | |
| | **Credit Hours** | **16** | | |
| **Spring** | | | | |
| DHY 160 | Concepts in Clinical Dental Hygiene II | 3 | DHY 150, DHY 152, DHY 154, DHY 155, DHY 156, DHY 157, DHY 158, and DHY 159 with minimum grades of "C", and Reading Proficiency | |
| DHY 162 | Clinical Dental Hygiene II | 5 | DHY 150, DHY 152, DHY 154, DHY 155, DHY 156, DHY 157, DHY 158, and DHY 159 with minimum grades of "C", and Reading Proficiency | |
| DHY 164 | Periodontics II | 2 | DHY 150, DHY 152, DHY 154, DHY 155, DHY 156, DHY 157, DHY 158, and DHY 159 with minimum grades of "C", and Reading Proficiency | |
| DHY 167 | Anatomy and Embryology of the Head & Neck | 3 | DHY 150, DHY 152, DHY 154, DHY 155, DHY 156, DHY 157, DHY 158, and DHY 159 with minimum grades of "C", and Reading Proficiency | |
| DHY 168 | General and Oral Pathology | 2 | DHY 150, DHY 152, DHY 154, DHY 155, DHY 156, DHY 157, DHY 158, and DHY 159 with minimum grades of "C", and Reading Proficiency | |
| DHY 169 | | 1 | | |
| | **Credit Hours** | **16** | | |

| | | | | |
|---|---|---|---|---|
| **Summer** | | | | |
| DHY 172 | Clinical Dental Hygiene: Summer Clinic | 2 | DHY 160, DHY 162, DHY 164, DHY 167, and DHY 168 with minimum grades of "C", and Reading Proficiency | |
| DHY 273 | Pain Control | 2 | DHY 160, DHY 162, DHY 164, DHY 167, DHY 168 with minimum grades of "C"; Current CPR-Basic Life Support with AED Certification, and Reading Proficiency | |
| | **Credit Hours** | **4** | | |
| **Third Year** | | | | |
| **Fall** | | | | |
| DHY 250 | Concepts in Clinical Dental Hygiene III | 2 | DHY 172 and DHY 273 with minimum grades of "C", and Reading Proficiency | |
| DHY 251 | | 1 | | |
| DHY 252 | Clinical Dental Hygiene III | 5 | DHY 172 and DHY 273 with minimum grades of "C", and Reading Proficiency | |
| DHY 257 | Dental Materials | 1 | DHY 172 and DHY 273 with minimum grades of "C"; Current CPR-Basic Life Support with AED Certification and Reading Proficiency | |
| DHY 258 | Dental Pharmacology | 2 | DHY 172 and DHY 273 with minimum grades of "C"; Current CPR-Basic Life Support with AED Certification, and Reading Proficiency | |
| DHY 259 | Dental Nutrition and Biochemistry | 2 | DHY 172 and DHY 273 with minimum grades of "C", and Reading Proficiency | |
| | **Credit Hours** | **13** | | |
| **Spring** | | | | |
| DHY 260 | Concepts IV: Ethics, Professionalism, and Practice Transition in Dental Hygiene | 2 | DHY 250, DHY 252, DHY 257, DHY 258, and DHY 259 with minimum grades of "C", and Reading Proficiency | Apply for graduation. |
| DHY 262 | Clinical Dental Hygiene IV | 5 | DHY 250, DHY 252, DHY 257, DHY 258, and DHY 259 with minimum grades of "C", and Reading Proficiency | |
| DHY 263 | Dental Public Health | 2 | DHY 250, DHY 252, DHY 257, DHY 258, and DHY 259 with minimum grades of "C", and Reading Proficiency | |
| | **Credit Hours** | **9** | | |
| | **Total Credit Hours** | **73** | | |

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Diagnostic Medical Sonography: CP

**Certificate of Proficiency | 43 credit hours minimum**

**School of Health Professions**

**Program Website (https://stlcc.edu/programs-academics/pathways/health-professions/diagnostic-medical-sonography/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

## Program Description:

Diagnostic Medical Sonography, Certificate of Proficiency provides a specialty in ultrasound technology for graduates of an associate degree or two-year hospital-based program in another health science area. Students attend full time and complete classroom work and clinical education in an affiliated ultrasound department. Students acquire skills in record keeping, reviewing, and recording pertinent clinical patient history; performing the sonographic examination; providing for the comforts and needs of the patient during the examination; and recording the anatomic, pathologic, and physiologic data for interpretation by the supervising physician.

Thoroughness, accuracy, and empathy are traits needed by persons interested in this program. They also should be versatile and able to follow precise and detailed directions.

Graduates are eligible to take the certifying examination of the American Registry of Diagnostic Medical Sonographers in the specialty areas of abdomen and obstetrics-gynecology in the medical track and adult echocardiography in the cardiac track. Graduates are eligible to take the certifying examination of Cardiovascular Credentialing International in the specialty area of vascular sonography in the vascular track. Positions are available in hospital ultrasound departments, clinics, mobile services, and private physicians' offices.

Pre-admissions Entrance Requirements:

- Completion of all program prerequisites prior to submitting an application.  Must earn a "C" or higher:
  - BIO 111 Introductory Biology or BIO 140 Principles of Biology I or CHM 101 Fundamentals of Chemistry I
  - BIO 207 Anatomy and Physiology I
  - BIO 208 Anatomy and Physiology II
  - PHY 111 College Physics I or PSI 101 Physical Science
  - MTH 160 Precalculus Algebra or MTH 180 Introductory Statistics
  - HIM 101 Medical Terminology and Language
  - ENG 101 College Composition I or ENG 102 College Composition II
  - COM 101 Oral Communication I or COM 107 Public Speaking
  - Cumulative GPA:  3.0
- Associate degree or higher
- Cumulative GPA for Mathematics and Sciences:  3.0 (Physics or Physical Science, Anatomy and Physiology I and II, Precalculus Algebra or Introductory Statistics)
- Only one repeat of a course prerequisite is allowed over a five-year period
- Complete 4 hours of job shadowing
- Complete 40 hours in a patient care setting (can be voluntary service within a hospital or nursing home)
- The following courses are required within five years of application: BIO 207, BIO 208, PSI 101 or PHY 111, and MTH 160 or MTH 180.
  - Students who have graduated within the last 2 years from a JCERT-accredited Radiologic Technology program are not required to retake math or science courses that are more than 5 years old. All required courses and other prerequisites must still be completed to be eligible to apply.
  - If a student's math prerequisite was taken over 5 years ago, they may take the math placement test and do not have to retake the math prerequisite if the score is 264 or higher on Accuplacer Next-Gen QAS.

**Locations.** This program is offered in its entirety at Forest Park. Students pursuing the Cardiac Sonography or Medical Sonography tracks may also complete their entire coursework at Wildwood.

**Licensure.** This program meets the educational requirements for state licensure in the following states: Missouri and Illinois. Students interested in pursuing licensure in a different state should contact the program coordinator for more information.

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. discuss concepts, anatomical structures, evaluation methods, and pattern recognition of cardiac, vascular, and abdominal specialties. (All Tracks)
2. discuss principles in ultrasound, ultrasound physics, and instrumentation. (All Tracks)
3. perform sonographic examinations of the abdomen, superficial structures, noncardiac chest, and the gravid and nongravid pelvis according to protocol guidelines established by national professional organizations. (Medical Track)
4. identify the sonographic appearance of normal anatomic structures, including anatomic variants and normal Doppler patterns with vascular introduction. (Medical Track)
5. document the abnormal sonographic and Doppler patterns of disease processes, pathology, and pathophysiology of the abdomen, superficial structures, non-cardiac chest, and gravid and nongravid pelvis. (Medical Track)
6. identify sectional anatomy, hemodynamics, pathophysiologic principles, and pattern recognition as it relates to vascular sonography. (Vascular Track)
7. identify the sonographic appearance of normal vascular anatomy, including anatomic variants, and normal Doppler patterns. (Vascular Track)
8. document the abnormal sonographic and Doppler patterns of vascular disease processes, pathology, and pathophysiology. (Vascular Track)
9. perform sonographic examinations of the vascular system including anatomical variants, hemodynamics, Doppler patterns, and pathology recognition. (Vascular Track)
10. perform echocardiography studies. (Cardiac Track)
11. identify sonographic appearance of normal cardiac anatomy, including anatomic variants, and normal Doppler patterns. (Cardiac Track)
12. evaluate normal and cardiovascular physiology and hemodynamics upon examination. (Cardiac Track)
13. evaluate mechanism of disease, cardiovascular pathophysiology and hemodynamics, sonographic technique, measurements, quantitative principles, and Doppler patterns in both the normal and diseased heart. (Cardiac Track)
14. compare the indicators, utility, limitations, and technical procedures for related echocardiographic studies. (Cardiac Track)

Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Program Requirements** | | |
| DMS 103 | Ultrasound Physics and Instrumentation I | 2 |
| DMS 104 | Ultrasound Physics and Instrumentation II | 3 |
| DMS 127 | Introduction to Sonography | 3 |
| DMS 217 | Professional Development in Sonography | 1 |
| **Tracks** | | |
| Select one of the following tracks: | | 34 |
| Cardiac Sonography | | |
| Medical Sonography | | |
| Vascular Technology | | |
| **Total Credit Hours** | | **43** |

# Tracks

Cardiac Sonography

| Code | Title | Credit Hours |
|---|---|---|
| DMS 112 | Cardiac Sonography I | 3 |
| DMS 113 | Cardiac Sonography Scanning Techniques I | 2 |
| DMS 115 | Cardiac Sonography II | 3 |
| DMS 114 | Cardiac Sonography Practicum I | 1 |
| DMS 131 | Fundamentals of Cardiac Sonography Scanning and Knobology | 1 |
| DMS 116 | Cardiac Sonography Scanning Techniques II | 2 |
| DMS 117 | Cardiac Sonography Clinical Applications | 3 |
| DMS 118 | Cardiac Sonography Practicum II | 3 |
| DMS 207 | Cardiac Sonography III | 4 |
| DMS 208 | Cardiac Sonography Practicum III | 2 |
| DMS 209 | Cardiac Sonography IV | 4 |
| DMS 126 | Introduction to Vascular Sonography | 3 |
| DMS 211 | Cardiac Sonography Practicum IV | 3 |
| **Total Credit Hours** | | **34** |

Medical Sonography

| Code | Title | Credit Hours |
|---|---|---|
| DMS 105 | Medical Sonography I | 3 |
| DMS 106 | Medical Sonography Scanning Techniques I | 2 |
| DMS 108 | Medical Sonography II | 3 |
| DMS 107 | Medical Sonography Practicum I | 1 |
| DMS 129 | Fundamentals of Medical Sonography Scanning and Knobology | 1 |
| DMS 109 | Medical Sonography Scanning Techniques II | 2 |
| DMS 110 | Medical Sonography Clinical Applications | 3 |
| DMS 111 | Medical Sonography Practicum II | 3 |
| DMS 202 | Medical Sonography III | 4 |
| DMS 203 | Medical Sonography Practicum III | 2 |
| DMS 204 | Medical Sonography IV | 4 |
| DMS 126 | Introduction to Vascular Sonography | 3 |
| DMS 206 | Medical Sonography Practicum IV | 3 |
| **Total Credit Hours** | | **34** |

Vascular Technology

| Code | Title | Credit Hours |
|---|---|---|
| DMS 119 | Vascular Technology I | 3 |
| DMS 120 | Vascular Technology Scanning Techniques I | 2 |
| DMS 122 | Vascular Technology II | 3 |
| DMS 121 | Vascular Technology Practicum I | 1 |
| DMS 133 | Fundamentals of Vascular Sonography Scanning and Knobology | 1 |
| DMS 123 | Vascular Technology Scanning Techniques II | 2 |
| DMS 125 | Vascular Technology Practicum II | 3 |
| DMS 130 | Introduction to Medical and Cardiac Sonography | 3 |
| DMS 212 | Vascular Technology III | 4 |
| DMS 213 | Vascular Technology Practicum III | 2 |
| DMS 214 | Vascular Technology IV | 4 |
| DMS 215 | Vascular Technology Clinical Applications | 3 |

| | | |
|---|---|---|
| DMS 216 | Vascular Technology Practicum IV | 3 |
| **Total Credit Hours** | | **34** |

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

# Pre-admissions Entrance Requirements

| Code | Title | Credit Hours |
|---|---|---|
| BIO 111 | Introductory Biology (MOTR BIOL 100L) | 4-5 |
| or BIO 140 | Principles of Biology I (MOTR BIOL 150L) | |
| or CHM 101 | Fundamentals of Chemistry I (MOTR CHEM 100L) | |
| BIO 207 | Anatomy and Physiology I (MOTR LIFS 150LAP) | 4 |
| BIO 208 | Anatomy and Physiology II | 4 |
| MTH 160 | Precalculus Algebra (MOTR MATH 130) | 3 |
| or MTH 160S | Precalculus Algebra with Support (MOTR MATH 130) | |
| or MTH 180 | Introductory Statistics (MOTR MATH 110) | |
| or MTH 180S | Introductory Statistics with Support (MOTR MATH 110) | |
| PHY 111 | College Physics I (MOTR PHYS 150L) | 3-4 |
| or PSI 101 | Physical Science (MOTR PHYS 110) | |
| HIM 101 | Medical Terminology and Language | 3 |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 |
| or ENG 102 | College Composition II (MOTR ENGL 200) | |
| COM 101 | Oral Communication I (MOTR COMM 100) | 3 |
| or COM 107 | Public Speaking (MOTR COMM 110) | |
| **Cumulative GPA of all Math and Science courses: 3.0** | | |
| **Must earn a "C" or higher in all prerequisite courses.** | | |
| **Total Credit Hours** | | **27-29** |

# Cardiac Sonography Track Full-Time Academic Plan

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| DMS 127 | Introduction to Sonography | 3 | Entry into the Diagnostic Medical Sonography program and Reading Proficiency | Gateway Course and Critical Course |
| DMS 103 | Ultrasound Physics and Instrumentation I | 2 | Entry into the Diagnostic Medical Sonography program and Reading Proficiency | |
| DMS 112 | Cardiac Sonography I | 3 | Entry into the Diagnostic Medical Sonography program and Reading Proficiency | |
| DMS 113 | Cardiac Sonography Scanning Techniques I | 2 | Entry into the Diagnostic Medical Sonography program and Reading Proficiency | |
| DMS 114 | Cardiac Sonography Practicum I | 1 | Entry into the Diagnostic Medical Sonography program and Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| DMS 131 | Fundamentals of Cardiac Sonography Scanning and Knobology | 1 | Entry into the Diagnostic Medical Sonography program and Reading Proficiency | |
| | **Credit Hours** | **12** | | |
| **Spring** | | | | |
| DMS 104 | Ultrasound Physics and Instrumentation II | 3 | DMS 103 with a minimum grade of "C" and Reading Proficiency | |
| DMS 115 | Cardiac Sonography II | 3 | DMS 112 with a minimum grade of "C" and Reading Proficiency | |
| DMS 116 | Cardiac Sonography Scanning Techniques II | 2 | DMS 113 with a minimum grade of "C" and Reading Proficiency | |
| DMS 117 | Cardiac Sonography Clinical Applications | 3 | DMS 112 with a minimum grade of "C" and Reading Proficiency | |
| DMS 118 | Cardiac Sonography Practicum II | 3 | DMS 114 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **14** | | |
| **Summer** | | | | |
| DMS 207 | Cardiac Sonography III | 4 | DMS 115 with a minimum grade of "C" and Reading Proficiency | |
| DMS 208 | Cardiac Sonography Practicum III | 2 | DMS 118 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| DMS 217 | Professional Development in Sonography | 1 | DMS 127 with a minimum grade of "C" and Reading Proficiency | |
| DMS 209 | Cardiac Sonography IV | 4 | DMS 207 with a minimum grade of "C" and Reading Proficiency | |
| DMS 126 | Introduction to Vascular Sonography | 3 | Current enrollment in the Cardiac learning concentration, Diagnostic Medical Sonography program or permission of the program director, and Reading Proficiency | |
| DMS 211 | Cardiac Sonography Practicum IV | 3 | DMS 208 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **11** | | |
| | **Total Credit Hours** | **43** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

# Pre-admissions Entrance Requirements:

| Code | Title | Credit Hours |
|---|---|---|
| **Required Courses** | | |
| BIO 111 | Introductory Biology (MOTR BIOL 100L) | 4-5 |
| or BIO 140 | Principles of Biology I (MOTR BIOL 150L) | |
| or CHM 101 | Fundamentals of Chemistry I (MOTR CHEM 100L) | |
| BIO 207 | Anatomy and Physiology I (MOTR LIFS 150LAP) | 4 |
| BIO 208 | Anatomy and Physiology II | 4 |
| MTH 160 | Precalculus Algebra (MOTR MATH 130) | 3 |
| or MTH 160S | Precalculus Algebra with Support (MOTR MATH 130) | |
| or MTH 180 | Introductory Statistics (MOTR MATH 110) | |
| or MTH 180S | Introductory Statistics with Support (MOTR MATH 110) | |
| PHY 111 | College Physics I (MOTR PHYS 150L) | 3-4 |
| or PSI 101 | Physical Science (MOTR PHYS 110) | |
| HIM 101 | Medical Terminology and Language | 3 |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 |
| or ENG 102 | College Composition II (MOTR ENGL 200) | |
| COM 101 | Oral Communication I (MOTR COMM 100) | 3 |
| or COM 107 | Public Speaking (MOTR COMM 110) | |
| **Cumulative GPA of Math and Science courses: 3.0** | | |
| **Must earn a "C" or higher in all prerequisite courses.** | | |
| **Total Credit Hours** | | **27-29** |

# Medical Sonography Track Full-Time Academic Plan

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| DMS 127 | Introduction to Sonography | 3 | Entry into the Diagnostic Medical Sonography program and Reading Proficiency | Gateway and Critical Course |
| DMS 103 | Ultrasound Physics and Instrumentation I | 2 | Entry into the Diagnostic Medical Sonography program and Reading Proficiency | |
| DMS 105 | Medical Sonography I | 3 | Entry into the Diagnostic Medical Sonography program and Reading Proficiency | |
| DMS 129 | Fundamentals of Medical Sonography Scanning and Knobology | 1 | Entry into the Diagnostic Medical Sonography program and Reading Proficiency | |
| DMS 106 | Medical Sonography Scanning Techniques I | 2 | Entry into the Diagnostic Medical Sonography program and Reading Proficiency | |
| DMS 107 | Medical Sonography Practicum I | 1 | Entry into the Diagnostic Medical Sonography program and Reading Proficiency | |
| | **Credit Hours** | **12** | | |

| | | | | |
|---|---|---|---|---|
| **Spring** | | | | |
| DMS 104 | Ultrasound Physics and Instrumentation II | 3 | DMS 103 with a minimum grade of "C" and Reading Proficiency | |
| DMS 108 | Medical Sonography II | 3 | DMS 105 with a minimum grade of "C" and Reading Proficiency | |
| DMS 109 | Medical Sonography Scanning Techniques II | 2 | DMS 106 with a minimum grade of "C" and Reading Proficiency | |
| DMS 110 | Medical Sonography Clinical Applications | 3 | DMS 105 with a minimum grade of "C" and Reading Proficiency | |
| DMS 111 | Medical Sonography Practicum II | 3 | DMS 107 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **14** | | |
| **Summer** | | | | |
| DMS 202 | Medical Sonography III | 4 | DMS 108 with a minimum grade of "C" and Reading Proficiency | |
| DMS 203 | Medical Sonography Practicum III | 2 | DMS 111 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| DMS 217 | Professional Development in Sonography | 1 | DMS 127 with a minimum grade of "C" and Reading Proficiency | |
| DMS 204 | Medical Sonography IV | 4 | DMS 202 with a minimum grade of "C" and Reading Proficiency | |
| DMS 126 | Introduction to Vascular Sonography | 3 | Current enrollment in the Cardiac learning concentration, Diagnostic Medical Sonography program or permission of the program director, and Reading Proficiency | |
| DMS 206 | Medical Sonography Practicum IV | 3 | DMS 203 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **11** | | |
| | **Total Credit Hours** | **43** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

# Pre-admissions Entrance Requirements:

| Code | Title | Credit Hours |
|---|---|---|
| **Required Courses** | | |
| BIO 111 | Introductory Biology (MOTR BIOL 100L) | 4-5 |
| or BIO 140 | Principles of Biology I (MOTR BIOL 150L) | |
| or CHM 101 | Fundamentals of Chemistry I (MOTR CHEM 100L) | |
| BIO 207 | Anatomy and Physiology I (MOTR LIFS 150LAP) | 4 |
| BIO 208 | Anatomy and Physiology II | 4 |
| MTH 160 | Precalculus Algebra (MOTR MATH 130) | 3 |
| or MTH 160S | Precalculus Algebra with Support (MOTR MATH 130) | |
| or MTH 180 | Introductory Statistics (MOTR MATH 110) | |
| or MTH 180S | Introductory Statistics with Support (MOTR MATH 110) | |
| PHY 111 | College Physics I (MOTR PHYS 150L) | 3-4 |
| or PSI 101 | Physical Science (MOTR PHYS 110) | |
| HIM 101 | Medical Terminology and Language | 3 |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 |
| or ENG 102 | College Composition II (MOTR ENGL 200) | |
| COM 101 | Oral Communication I (MOTR COMM 100) | 3 |
| or COM 107 | Public Speaking (MOTR COMM 110) | |
| **Cumulative GPA of Math and Science courses: 3.0** | | |
| **Must earn a "C" or higher in all prerequisite courses** | | |
| **Total Credit Hours** | | **27-29** |

# Vascular Technology Track Full-Time Academic Plan

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| DMS 127 | Introduction to Sonography | 3 | Entry into the Diagnostic Medical Sonography program and Reading Proficiency | Gateway and Critical Course |
| DMS 103 | Ultrasound Physics and Instrumentation I | 2 | Entry into the Diagnostic Medical Sonography program and Reading Proficiency | |
| DMS 119 | Vascular Technology I | 3 | Entry into the Diagnostic Medical Sonography program and Reading Proficiency | |
| DMS 133 | Fundamentals of Vascular Sonography Scanning and Knobology | 1 | Entry into the Diagnostic Medical Sonography program and Reading Proficiency | |
| DMS 120 | Vascular Technology Scanning Techniques I | 2 | Entry into the Diagnostic Medical Sonography program and Reading Proficiency | |
| DMS 121 | Vascular Technology Practicum I | 1 | Entry into the Diagnostic Medical Sonography program and Reading Proficiency | |
| | **Credit Hours** | **12** | | |
| **Spring** | | | | |
| DMS 104 | Ultrasound Physics and Instrumentation II | 3 | DMS 103 with a minimum grade of "C" and Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| DMS 122 | Vascular Technology II | 3 | DMS 119 with a minimum grade of "C" and Reading Proficiency | |
| DMS 123 | Vascular Technology Scanning Techniques II | 2 | DMS 120 with a minimum grade of "C" and Reading Proficiency | |
| DMS 130 | Introduction to Medical and Cardiac Sonography | 3 | DMS 127 with a minimum grade of "C" and Reading Proficiency | |
| DMS 125 | Vascular Technology Practicum II | 3 | DMS 121 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **14** | | |
| **Summer** | | | | |
| DMS 212 | Vascular Technology III | 4 | DMS 122 with a minimum grade of "C" and Reading Proficiency | |
| DMS 213 | Vascular Technology Practicum III | 2 | DMS 125 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| DMS 217 | Professional Development in Sonography | 1 | DMS 127 with a minimum grade of "C" and Reading Proficiency | |
| DMS 214 | Vascular Technology IV | 4 | DMS 212 with a minimum grade of "C" and Reading Proficiency | |
| DMS 215 | Vascular Technology Clinical Applications | 3 | DMS 212 with a minimum grade of "C" and Reading Proficiency | |
| DMS 216 | Vascular Technology Practicum IV | 3 | DMS 213 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **11** | | |
| | **Total Credit Hours** | **43** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Diesel Technology: AAS

**Associate in Applied Science | 60 credit hours minimum**

**School of Advanced Manufacturing, Transportation, and Hospitality Studies**

**Program Website (https://stlcc.edu/programs-academics/pathways/a-m-i-o-t/diesel-technology/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

## Program Description:

The AAS degree Diesel Technology program is designed to prepare graduates for careers as medium/heavy truck repair technicians. Graduates will be qualified for positions requiring diagnosis and repair of the following truck systems: diesel engines, suspension and steering; brakes, electrical and electronics, preventive

maintenance, drive train; and heating, ventilation and air conditioning. Graduates will be competent for entry-level positions in new vehicle dealerships, truck and bus leasing companies, street and highway departments, transit maintenance facilities, fleet carriers, and miscellaneous other vehicle-based operations.

**Locations.** This program is offered in its entirety at Forest Park.

**Related Programs.** The Diesel Technology Department offers certificates in the following areas:

- **Diesel Technology, Certificate of Proficiency (p. 201)**
- **Diesel Technology, Certificate of Specialization (p. 205)**

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. diagnose, service, and repair truck engines.
2. diagnose, service, and repair truck braking systems.
3. diagnose, service, and repair truck steering and suspension systems.
4. diagnose, service, and repair truck electrical and electronic systems.
5. diagnose, service, and repair truck HVAC systems.
6. perform truck preventive maintenance.
7. diagnose, service, and repair truck drivetrains and axles.

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **General Education** | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 |
| or ENG 102 | College Composition II (MOTR ENGL 200) | |
| MTH 108 | Elementary Applied Mathematics (or higher) | 3 |
| BUS 104 | Introduction to Business Administration | 3 |
| COM 101 | Oral Communication I (MOTR COMM 100) | 3 |
| or COM 107 | Public Speaking (MOTR COMM 110) | |
| PSI 101 | Physical Science (MOTR PHYS 110) | 3 |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 |
| **Program Requirements** | | |
| DIE 100 | Introduction to Diesel Technology | 3 |
| DIE 101 | Diesel Engine Operation and Repair | 3 |
| DIE 102 | Medium/Heavy Truck Suspension and Steering | 3 |
| DIE 103 | Medium/Heavy Truck Electricity | 3 |
| DIE 105 | Diesel Fuel Systems | 3 |
| DIE 106 | Medium/Heavy Truck Brakes | 3 |
| DIE 107 | Medium/Heavy Truck Electronics | 3 |
| DIE 201 | Preventive Maintenance Inspection | 3 |
| DIE 206 | Medium/Heavy Truck Drivetrains | 3 |
| DIE 203 | Truck Heating, Ventilation, and Air Conditioning | 3 |

| | | |
|---|---|---|
| DIE 204 | Service and Parts Management | 3 |
| DIE 202 | Co-op Work Experience I-Diesel Technology | 3 |
| DIE 205 | Co-op Work Experience II - Diesel Technology | 3 |
| ME 101 | Welding Technology | 3 |
| **Total Credit Hours** | | **60** |

# Full-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| DIE 100 | Introduction to Diesel Technology | 3 | MTH 020 with a grade of "C" or better, or satisfactory score on placement test, and Reading Proficiency or concurrent enrollment in RDG 079 | Exploratory Course, Gateway Course, Critical Course. First 8 weeks |
| DIE 103 | Medium/Heavy Truck Electricity | 3 | Reading Proficiency | First 4 weeks |
| DIE 107 | Medium/Heavy Truck Electronics | 3 | DIE 103 with a minimum grade of "C" and Reading Proficiency | Second 4 weeks |
| DIE 201 | Preventive Maintenance Inspection | 3 | DIE 100 with a minimum grade of "C" and Reading Proficiency | Third 4 weeks |
| DIE 102 | Medium/Heavy Truck Suspension and Steering | 3 | DIE 100 with a minimum grade of "C" and Reading Proficiency | Fourth 4 weeks |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| DIE 106 | Medium/Heavy Truck Brakes | 3 | DIE 100 with a minimum grade of "C" and Reading Proficiency | First 4 weeks; Apply for Certificate of Specialization - Diesel Technology. |
| DIE 101 | Diesel Engine Operation and Repair | 3 | DIE 100 with a minimum grade of "C" and Reading Proficiency | Second 4 weeks |
| DIE 105 | Diesel Fuel Systems | 3 | DIE 100, DIE 101, and DIE 107 with minimum grades of "C"; and Reading Proficiency | Third 4 weeks |
| DIE 203 | Truck Heating, Ventilation, and Air Conditioning | 3 | DIE 100 with a minimum grade of "C" and Reading Proficiency | Fourth 4 weeks |
| ME 101 | Welding Technology | 3 | Reading Proficiency | |
| | **Credit Hours** | **15** | | |
| **Summer** | | | | |
| DIE 202 | Co-op Work Experience I-Diesel Technology | 3 | DIE 102, DIE 106, and DIE 107 with minimum grades of "C"; and Reading Proficiency | First 4 weeks |
| DIE 205 | Co-op Work Experience II - Diesel Technology | 3 | Reading Proficiency | Second 4 weeks |
| | **Credit Hours** | **6** | | |

| | | | | |
|---|---|---|---|---|
| **Second Year** | | | | |
| **Fall** | | | | |
| DIE 206 | Medium/Heavy Truck Drivetrains | 3 | DIE 100 with a minimum grade of "C" and Reading Proficiency | First 4 weeks |
| DIE 204 | Service and Parts Management | 3 | Reading Proficiency | Second 4 weeks |
| MTH 108 | Elementary Applied Mathematics (or higher) | 3 | Reading Proficiency | Apply for Certificate of Proficiency - Diesel Technology. |
| Select one of the following: | | 3 | | |
| COM 101 | Oral Communication I (MOTR COMM 100) | | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | |
| COM 107 | Public Speaking (MOTR COMM 110) | | Reading Proficiency | |
| | **Credit Hours** | **12** | | |
| **Spring** | | | | |
| Select one of the following: | | 3 | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | Apply for graduation. |
| ENG 102 | College Composition II (MOTR ENGL 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| BUS 104 | Introduction to Business Administration | 3 | Reading Proficiency | |
| PSI 101 | Physical Science (MOTR PHYS 110) | 3 | MTH 108 or MTH 140S with a minimum grade of "C", or placement into MTH 140 or higher, and Reading Proficiency | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | |
| | **Credit Hours** | **12** | | |
| | **Total Credit Hours** | **60** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Part-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| DIE 100 | Introduction to Diesel Technology | 3 | MTH 020 with a grade of "C" or better, or satisfactory score on placement test, and Reading Proficiency or concurrent enrollment in RDG 079 | Exploratory Course, Gateway Course, Critical Course. First 8-weeks |
| DIE 103 | Medium/Heavy Truck Electricity | 3 | Reading Proficiency | First 4 weeks |
| DIE 107 | Medium/Heavy Truck Electronics | 3 | DIE 103 with a minimum grade of "C" and Reading Proficiency | Second 4 weeks |
| | **Credit Hours** | **9** | | |
| **Spring** | | | | |
| DIE 106 | Medium/Heavy Truck Brakes | 3 | DIE 100 with a minimum grade of "C" and Reading Proficiency | First 4 weeks |
| DIE 101 | Diesel Engine Operation and Repair | 3 | DIE 100 with a minimum grade of "C" and Reading Proficiency | Second 4 weeks |
| DIE 105 | Diesel Fuel Systems | 3 | DIE 100, DIE 101, and DIE 107 with minimum grades of "C"; and Reading Proficiency | Third 4 weeks |
| | **Credit Hours** | **9** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| DIE 201 | Preventive Maintenance Inspection | 3 | DIE 100 with a minimum grade of "C" and Reading Proficiency | |
| DIE 102 | Medium/Heavy Truck Suspension and Steering | 3 | DIE 100 with a minimum grade of "C" and Reading Proficiency | Apply for Certificate of Specialization, Diesel Technology. |
| DIE 206 | Medium/Heavy Truck Drivetrains | 3 | DIE 100 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **9** | | |
| **Spring** | | | | |
| DIE 203 | Truck Heating, Ventilation, and Air Conditioning | 3 | DIE 100 with a minimum grade of "C" and Reading Proficiency | |
| ME 101 | Welding Technology | 3 | Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| **Summer** | | | | |
| DIE 205 | Co-op Work Experience II - Diesel Technology | 3 | Reading Proficiency | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | |
| DIE 202 | Co-op Work Experience I-Diesel Technology | 3 | DIE 102, DIE 106, and DIE 107 with minimum grades of "C"; and Reading Proficiency | |
| | **Credit Hours** | **9** | | |
| **Third Year** | | | | |
| **Fall** | | | | |
| DIE 204 | Service and Parts Management | 3 | Reading Proficiency | Apply for Certificate of Proficiency, Diesel Technology. |

| | | | | |
|---|---|---|---|---|
| MTH 108 | Elementary Applied Mathematics (or higher) | 3 | Reading Proficiency | |
| Select one of the following: | | 3 | | |
| COM 101 | Oral Communication I (MOTR COMM 100) | | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | |
| COM 107 | Public Speaking (MOTR COMM 110) | | Reading Proficiency | |
| | **Credit Hours** | **9** | | |
| **Spring** | | | | |
| Select one of the following: | | 3 | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | Apply for graduation. |
| ENG 102 | College Composition II (MOTR ENGL 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| BUS 104 | Introduction to Business Administration | 3 | Reading Proficiency | |
| PSI 101 | Physical Science (MOTR PHYS 110) | 3 | MTH 108 or MTH 140S with a minimum grade of "C", or placement into MTH 140 or higher, and Reading Proficiency | |
| | **Credit Hours** | **9** | | |
| | **Total Credit Hours** | **60** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Diesel Technology: CP

**Certificate of Proficiency | 42 credit hours minimum**

**School of Advanced Manufacturing, Transportation, and Hospitality Studies**

**Program Website (https://stlcc.edu/programs-academics/pathways/a-m-i-o-t/diesel-technology/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

The Diesel Technology Certificate of Proficiency program is designed to prepare graduates for careers as medium/heavy truck repair technicians. Graduates will be qualified for positions requiring diagnosis and repair of the following truck systems: diesel engines, suspension and steering, brakes, electrical and electronics, preventive maintenance, drive train, and heating, ventilation and air conditioning. Graduates will be competent for entry-level positions in new vehicle dealerships, truck and bus leasing companies, street and highway departments, transit maintenance facilities, fleet carriers, and miscellaneous other vehicle-based operations.

**Locations.** This program is offered in its entirety at Forest Park.

**Related Programs.** The Diesel Technology Department offers an associate and a certificate in the following areas:

- **Diesel Technology, Associate in Applied Science (p. 196)**
- **Diesel Technology, Certificate of Specialization (p. 205)**

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. diagnose, service, and repair truck engines.
2. diagnose, service, and repair truck braking systems.
3. diagnose, service, and repair truck steering and suspension systems.
4. diagnose, service, and repair truck electrical and electronic systems.
5. diagnose, service, and repair truck HVAC systems.
6. perform truck preventive maintenance.
7. diagnose, service, and repair truck drivetrains and axles.

# Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Program Requirements** | | |
| DIE 100 | Introduction to Diesel Technology | 3 |
| DIE 101 | Diesel Engine Operation and Repair | 3 |
| DIE 102 | Medium/Heavy Truck Suspension and Steering | 3 |
| DIE 103 | Medium/Heavy Truck Electricity | 3 |
| DIE 105 | Diesel Fuel Systems | 3 |
| DIE 106 | Medium/Heavy Truck Brakes | 3 |
| DIE 107 | Medium/Heavy Truck Electronics | 3 |
| DIE 201 | Preventive Maintenance Inspection | 3 |
| DIE 202 | Co-op Work Experience I-Diesel Technology | 3 |
| DIE 203 | Truck Heating, Ventilation, and Air Conditioning | 3 |
| DIE 204 | Service and Parts Management | 3 |
| DIE 205 | Co-op Work Experience II - Diesel Technology | 3 |
| DIE 206 | Medium/Heavy Truck Drivetrains | 3 |
| ME 101 | Welding Technology | 3 |
| **Total Credit Hours** | | **42** |

# Academic Plan

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| DIE 100 | Introduction to Diesel Technology | 3 | MTH 020 with a grade of "C" or better, or satisfactory score on placement test, and Reading Proficiency or concurrent enrollment in RDG 079 | Exploratory Course, Gateway Course, Critical Course. First 8 weeks |
| DIE 103 | Medium/Heavy Truck Electricity | 3 | Reading Proficiency | First 4 weeks |
| DIE 107 | Medium/Heavy Truck Electronics | 3 | DIE 103 with a minimum grade of "C" and Reading Proficiency | Second 4 weeks |
| DIE 201 | Preventive Maintenance Inspection | 3 | DIE 100 with a minimum grade of "C" and Reading Proficiency | Third 4 weeks |
| DIE 102 | Medium/Heavy Truck Suspension and Steering | 3 | DIE 100 with a minimum grade of "C" and Reading Proficiency | Fourth 4 weeks |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| DIE 106 | Medium/Heavy Truck Brakes | 3 | DIE 100 with a minimum grade of "C" and Reading Proficiency | First 4 weeks; Apply for Certificate of Specialization - Diesel Technology. |
| DIE 101 | Diesel Engine Operation and Repair | 3 | DIE 100 with a minimum grade of "C" and Reading Proficiency | Second 4 weeks |
| DIE 105 | Diesel Fuel Systems | 3 | DIE 100, DIE 101, and DIE 107 with minimum grades of "C"; and Reading Proficiency | Third 4 weeks |
| DIE 203 | Truck Heating, Ventilation, and Air Conditioning | 3 | DIE 100 with a minimum grade of "C" and Reading Proficiency | Fourth 4 weeks |
| ME 101 | Welding Technology | 3 | Reading Proficiency | |
| | **Credit Hours** | **15** | | |
| **Summer** | | | | |
| DIE 202 | Co-op Work Experience I-Diesel Technology | 3 | DIE 102, DIE 106, and DIE 107 with minimum grades of "C"; and Reading Proficiency | First 4 weeks |
| DIE 205 | Co-op Work Experience II - Diesel Technology | 3 | Reading Proficiency | Second 4 weeks |
| | **Credit Hours** | **6** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| DIE 206 | Medium/Heavy Truck Drivetrains | 3 | DIE 100 with a minimum grade of "C" and Reading Proficiency | First 4 weeks; Apply for graduation. |
| DIE 204 | Service and Parts Management | 3 | Reading Proficiency | Second 4 weeks |
| | **Credit Hours** | **6** | | |
| | **Total Credit Hours** | **42** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Part-Time Academic Plan

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| DIE 100 | Introduction to Diesel Technology | 3 | MTH 020 with a grade of "C" or better, or satisfactory score on placement test, and Reading Proficiency or concurrent enrollment in RDG 079 | Exploratory Course, Gateway Course, Critical Course. First 8-weeks |
| DIE 103 | Medium/Heavy Truck Electricity | 3 | Reading Proficiency | First 4 Weeks |
| DIE 107 | Medium/Heavy Truck Electronics | 3 | DIE 103 with a minimum grade of "C" and Reading Proficiency | Second 4 weeks |
| | **Credit Hours** | **9** | | |
| **Spring** | | | | |
| DIE 106 | Medium/Heavy Truck Brakes | 3 | DIE 100 with a minimum grade of "C" and Reading Proficiency | First 4 weeks |
| DIE 101 | Diesel Engine Operation and Repair | 3 | DIE 100 with a minimum grade of "C" and Reading Proficiency | Second 4 weeks |
| DIE 105 | Diesel Fuel Systems | 3 | DIE 100, DIE 101, and DIE 107 with minimum grades of "C"; and Reading Proficiency | Third 4 weeks |
| | **Credit Hours** | **9** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| DIE 201 | Preventive Maintenance Inspection | 3 | DIE 100 with a minimum grade of "C" and Reading Proficiency | |
| DIE 102 | Medium/Heavy Truck Suspension and Steering | 3 | DIE 100 with a minimum grade of "C" and Reading Proficiency | Apply for Certificate of Specialization - Diesel Technology. |
| DIE 206 | Medium/Heavy Truck Drivetrains | 3 | DIE 100 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **9** | | |
| **Spring** | | | | |
| DIE 203 | Truck Heating, Ventilation, and Air Conditioning | 3 | DIE 100 with a minimum grade of "C" and Reading Proficiency | |
| ME 101 | Welding Technology | 3 | Reading Proficiency | |
| DIE 204 | Service and Parts Management | 3 | Reading Proficiency | |
| | **Credit Hours** | **9** | | |
| **Summer** | | | | |
| DIE 205 | Co-op Work Experience II - Diesel Technology | 3 | Reading Proficiency | Apply for graduation. |

| | | | | |
|---|---|---|---|---|
| DIE 202 | Co-op Work Experience I-Diesel Technology | 3 | DIE 102, DIE 106, and DIE 107 with minimum grades of "C"; and Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| | **Total Credit Hours** | **42** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Diesel Technology: CS

**Certificate of Specialization | 18 credit hours minimum**

**School of Advanced Manufacturing, Transportation, and Hospitality Studies**

**Program Website (https://stlcc.edu/programs-academics/pathways/a-m-i-o-t/diesel-technology/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

## Program Description:

The Diesel Technology Certificate of Specialization program is designed to prepare graduates for careers as medium/heavy truck repair technicians. Graduates will be qualified for positions requiring diagnosis and repair of the following truck systems: suspension and steering, brakes, electrical and electronics, and preventive maintenance. Graduates will be competent for entry-level positions in new vehicle dealerships, truck and bus leasing companies, street and highway departments, transit maintenance facilities, fleet carriers, and miscellaneous other vehicle-based operations.

**Locations.** This program is offered in its entirety at Forest Park.

**Related Programs.** The Diesel Technology Department offers an associate and a certificate in the following areas:

- **Diesel Technology, Associate in Applied Science (p. 196)**
- **Diesel Technology, Certificate of Proficiency (p. 201)**

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

## At the completion of the program, students are expected to:

1. diagnose, service, and repair truck steering and suspension systems.
2. diagnose, service, and repair truck electrical and electronic systems.
3. diagnose, service, and repair truck braking systems.
4. perform truck preventive maintenance.

# Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Program Requirements** | | |
| DIE 100 | Introduction to Diesel Technology | 3 |
| DIE 102 | Medium/Heavy Truck Suspension and Steering | 3 |
| DIE 103 | Medium/Heavy Truck Electricity | 3 |
| DIE 106 | Medium/Heavy Truck Brakes | 3 |
| DIE 107 | Medium/Heavy Truck Electronics | 3 |
| DIE 201 | Preventive Maintenance Inspection | 3 |
| **Total Credit Hours** | | **18** |

# Academic Plan

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| DIE 100 | Introduction to Diesel Technology | 3 | MTH 020 with a grade of "C" or better, or satisfactory score on placement test, and Reading Proficiency or concurrent enrollment in RDG 079 | Exploratory Course, Gateway Course, Critical Course. First 8 weeks |
| DIE 103 | Medium/Heavy Truck Electricity | 3 | Reading Proficiency | First 4 weeks |
| DIE 107 | Medium/Heavy Truck Electronics | 3 | DIE 103 with a minimum grade of "C" and Reading Proficiency | Second 4 weeks |
| DIE 201 | Preventive Maintenance Inspection | 3 | DIE 100 with a minimum grade of "C" and Reading Proficiency | Third 4 weeks |
| DIE 102 | Medium/Heavy Truck Suspension and Steering | 3 | DIE 100 with a minimum grade of "C" and Reading Proficiency | Fourth 4 weeks |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| DIE 106 | Medium/Heavy Truck Brakes | 3 | DIE 100 with a minimum grade of "C" and Reading Proficiency | First 4 weeks; Apply for graduation. |
| | **Credit Hours** | **3** | | |
| | **Total Credit Hours** | **18** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Part-Time Academic Plan

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| DIE 100 | Introduction to Diesel Technology | 3 | MTH 020 with a grade of "C" or better, or satisfactory score on placement test, and Reading Proficiency or concurrent enrollment in RDG 079 | Exploratory Course, Gateway Course, Critical Course |
| DIE 103 | Medium/Heavy Truck Electricity | 3 | Reading Proficiency | |
| DIE 107 | Medium/Heavy Truck Electronics | 3 | DIE 103 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **9** | | |
| **Spring** | | | | |
| DIE 106 | Medium/Heavy Truck Brakes | 3 | DIE 100 with a minimum grade of "C" and Reading Proficiency | Apply for graduation. |
| DIE 201 | Preventive Maintenance Inspection | 3 | DIE 100 with a minimum grade of "C" and Reading Proficiency | |
| DIE 102 | Medium/Heavy Truck Suspension and Steering | 3 | DIE 100 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **9** | | |
| | **Total Credit Hours** | **18** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Engineering Technology: AAS

**Associate in Applied Science | 60 credit hours minimum**

**School of Advanced Manufacturing, Transportation, and Hospitality Studies**

**Program Website**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

The Engineering Technology Associate in Applied Science program prepares students for entry level positions as engineering technologists through classroom instruction, laboratory skill practice, and/or work experience. Students will gain hands on knowledge in electronics, blueprint reading, measurement techniques, and prototype development.

Persons interested in this program should possess a stable temperament, manual dexterity, physical stamina, and the ability to integrate and prioritize a variety of activities. Engineering technicians jobs are available in a wide variety areas including engineering, manufacturing, medical, repair, maintenance, and other fields. Course work can be focused on biomedical equipment repair, computer aided design, manufacturing, electronics repair, robotics, or other areas.

**Locations.** This program is offered in its entirety at Florissant Valley.

**Related Programs.** The Engineering Technology and Manufacturing Department offers certificates in the following areas:

- **Biomedical Electronics Technology, Certificate of Proficiency (p. 99)**
- **Computer Aided Design (CAD), Certificate of Specialization (p. 151)**
- **HVAC Technician, Certificate of Specialization (p. 284)**
- **Precision Machining Technology, Certificate of Specialization (p. 356)**
- **Welding Technology, Certificate of Proficiency (p. 412)**
- **Welding Technology, Certificate of Specialization (p. 414)**

**Transfer/Articulation Information.** This is a 2-year terminal degree. Several courses are transferable to other institutions. Students should check with the receiving institution to determine credit transferability.

Students interested in pursuing courses leading to engineering bachelor's degree programs should follow the courses listed in the (https://catalog.stlcc.edu/programs/engineering-science-as/)**General STEM Transfer Studies, Associate in Science (p. 225)** degree.

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program “St. Louis Community College” and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. communicate technical issues through written documents and oral communications.
2. troubleshoot basic Direct Current (DC) and Alternating Current (AC) circuits.
3. interpret engineering drawings and schematics.
4. solve engineering problems at the technician level.
5. apply measurement techniques to mechanical and electrical problems.
6. use equipment properly while meeting safety and environmental concerns in the workplace.

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate’s degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **General Education** | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 |
| or ENG 102 | College Composition II (MOTR ENGL 200) | |
| MTH 140 | Intermediate Algebra (or MTH 140S or higher) | 3 |
| BIO 109 | Human Biology (MOTR LIFS 100) | 3 |
| or PSI 101 | Physical Science (MOTR PHYS 110) | |
| COM 101 | Oral Communication I (MOTR COMM 100) | 3 |
| or COM 107 | Public Speaking (MOTR COMM 110) | |
| or COM 201 | Interpersonal Communication (MOTR COMM 120) | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 |
| **Program Requirements** | | |
| GE 131 | Engineering Technology Orientation | 1 |

| | | |
|---|---|---|
| GE 101 | Technical Computer Applications | 3 |
| GE 135 | Blueprint Reading for Engineering Technicians | 2 |
| EE 134 | Electric Circuits | 6 |
| GE 240 | Product Design and Fabrication | 4 |
| **Elective hours** | | **29** |
| Elective hours are to be taken from BE, CE, EE, EGR, ESC, GE, GST, ME, QC, WEL prefixes or IT 101, IT 201 based around the desired Engineering Technician specialization | | |
| **Total Credit Hours** | | **60** |

# Full-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| GE 131 | Engineering Technology Orientation | 1 | Reading Proficiency | Exploratory Course |
| EE 134 | Electric Circuits | 6 | MTH 140 (or MTH 140S) with a minimum grade of "C" or equivalent placement test scores or department approval and Reading Proficiency | Gateway Course, Critical Course |
| MTH 140 | Intermediate Algebra (or MTH 140S or higher) | 3 | Satisfactory placement and Reading Proficiency | |
| GE 101 | Technical Computer Applications | 3 | Reading Proficiency | |
| GE 135 | Blueprint Reading for Engineering Technicians | 2 | Reading Proficiency | Apply for graduation for Certificate of Specialization - Skilled Trades. |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | |
| Choose one of the following: | | 3 | | |
| PSI 101 | Physical Science (MOTR PHYS 110) | | MTH 108 or MTH 140S with a minimum grade of "C", or placement into MTH 140 or higher, and Reading Proficiency | |
| BIO 109 | Human Biology (MOTR LIFS 100) | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| Choose one of the following: | | 3 | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| ENG 102 | College Composition II (MOTR ENGL 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| XXX xxx | Engineering Technology Elective | 3 | | Choose from BE, CE, EE, EGR, ESC, GE, GST, ME, QC, or WEL prefixes, or IT 101, IT 201. |

| | | | | |
|---|---|---|---|---|
| XXX xxx | Engineering Technology Elective | 3 | | Choose from BE, CE, EE, EGR, ESC, GE, GST, ME, QC, or WEL prefixes, or IT 101, IT 201. |
| | **Credit Hours** | **15** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| XXX xxx | Engineering Technology Elective | 3 | | Choose from BE, CE, EE, EGR, ESC, GE, GST, ME, QC, or WEL prefixes, or IT 101, IT 201. |
| XXX xxx | Engineering Technology Elective | 3 | | Choose from BE, CE, EE, EGR, ESC, GE, GST, ME, QC, or WEL prefixes, or IT 101, IT 201. |
| XXX xxx | Engineering Technology Elective | 3 | | Choose from BE, CE, EE, EGR, ESC, GE, GST, ME, QC, or WEL prefixes, or IT 101, IT 201. |
| XXX xxx | Engineering Technology Elective | 3 | | Choose from BE, CE, EE, EGR, ESC, GE, GST, ME, QC, or WEL prefixes, or IT 101, IT 201. |
| XXX xxx | Engineering Technology Elective | 3 | | Choose from BE, CE, EE, EGR, ESC, GE, GST, ME, QC, or WEL prefixes, or IT 101, IT 201. |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| GE 240 | Product Design and Fabrication | 4 | ME 151 or EE 134 or EGR 100 or ME 111 with minimum grades of "C" or department approval, and Reading Proficiency | Apply for graduation. |
| Choose one of the following: | | 3 | | |
| COM 101 | Oral Communication I (MOTR COMM 100) | | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | |
| COM 107 | Public Speaking (MOTR COMM 110) | | Reading Proficiency | |
| COM 201 | Interpersonal Communication (MOTR COMM 120) | | Reading Proficiency | |
| XXX xxx | Engineering Technology Elective | 3 | | Choose from BE, CE, EE, EGR, ESC, GE, GST, ME, QC, or WEL prefixes, or IT 101, IT 201. |
| XXX xxx | Engineering Technology Elective | 3 | | Choose from BE, CE, EE, EGR, ESC, GE, GST, ME, QC, or WEL prefixes, or IT 101, IT 201. |
| XXX xxx | Engineering Technology Elective | 2 | | Choose from BE, CE, EE, EGR, ESC, GE, GST, ME, QC, or WEL prefixes, or IT 101, IT 201. |
| | **Credit Hours** | **15** | | |
| | **Total Credit Hours** | **60** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Part-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| MTH 140 | Intermediate Algebra (or MTH 140S or higher) | 3 | Satisfactory placement and Reading Proficiency | |
| GE 101 | Technical Computer Applications | 3 | Reading Proficiency | |
| GE 131 | Engineering Technology Orientation | 1 | Reading Proficiency | Exploratory Course |
| | **Credit Hours** | **7** | | |
| **Spring** | | | | |
| EE 134 | Electric Circuits | 6 | MTH 140 (or MTH 140S) with a minimum grade of "C" or equivalent placement test scores or department approval and Reading Proficiency | Gateway Course, Critical Course |
| **Apply for graduation for Certificate of Specialization - Skilled Trades.** | | | | |
| | **Credit Hours** | **6** | | |
| **Summer** | | | | |
| Choose one of the following: | | 3 | | |
| PSI 101 | Physical Science (MOTR PHYS 110) | | MTH 108 or MTH 140S with a minimum grade of "C", or placement into MTH 140 or higher, and Reading Proficiency | |
| BIO 109 | Human Biology (MOTR LIFS 100) | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| | **Credit Hours** | **3** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| GE 135 | Blueprint Reading for Engineering Technicians | 2 | Reading Proficiency | |
| XXX xxx | Engineering Technology Elective | 3 | | Choose from BE, CE, EE, EGR, ESC, GE, GST, ME, QC, or WEL prefixes, or IT 101, IT 201. |
| XXX xxx | Engineering Technology Elective | 3 | | Choose from BE, CE, EE, EGR, ESC, GE, GST, ME, QC, or WEL prefixes, or IT 101, IT 201. |
| | **Credit Hours** | **8** | | |

| | | | | |
|---|---|---|---|---|
| **Spring** | | | | |
| XXX xxx | Engineering Technology Elective | 3 | | Choose from BE, CE, EE, EGR, ESC, GE, GST, ME, QC, or WEL prefixes, or IT 101, IT 201. |
| XXX xxx | Engineering Technology Elective | 3 | | Choose from BE, CE, EE, EGR, ESC, GE, GST, ME, QC, or WEL prefixes, or IT 101, IT 201. |
| | **Credit Hours** | **6** | | |
| **Summer** | | | | |
| Choose one of the following: | | 3 | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| ENG 102 | College Composition II (MOTR ENGL 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **3** | | |
| **Third Year** | | | | |
| **Fall** | | | | |
| XXX xxx | Engineering Technology Elective | 3 | | Choose from BE, CE, EE, EGR, ESC, GE, GST, ME, QC, or WEL prefixes, or IT 101, IT 201. |
| XXX xxx | Engineering Technology Elective | 3 | | Choose from BE, CE, EE, EGR, ESC, GE, GST, ME, QC, or WEL prefixes, or IT 101, IT 201. |
| | **Credit Hours** | **6** | | |
| **Spring** | | | | |
| XXX xxx | Engineering Technology Elective | 3 | | Choose from BE, CE, EE, EGR, ESC, GE, GST, ME, QC, or WEL prefixes, or IT 101, IT 201. |
| XXX xxx | Engineering Technology Elective | 3 | | Choose from BE, CE, EE, EGR, ESC, GE, GST, ME, QC, or WEL prefixes, or IT 101, IT 201. |
| | **Credit Hours** | **6** | | |
| **Summer** | | | | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | |
| | **Credit Hours** | **3** | | |
| **Fourth Year** | | | | |
| **Fall** | | | | |
| XXX xxx | Engineering Technology Elective | 3 | | Choose from BE, CE, EE, EGR, ESC, GE, GST, ME, QC, or WEL prefixes, or IT 101, IT 201. |
| XXX xxx | Engineering Technology Elective | 2 | | Choose from BE, CE, EE, EGR, ESC, GE, GST, ME, QC, or WEL prefixes, or IT 101, IT 201. |
| | **Credit Hours** | **5** | | |

| | | | | |
|---|---|---|---|---|
| **Spring** | | | | |
| GE 240 | Product Design and Fabrication | 4 | ME 151 or EE 134 or EGR 100 or ME 111 with minimum grades of "C" or department approval, and Reading Proficiency | Apply for graduation. |
| Choose one of the following: | | 3 | | |
| COM 101 | Oral Communication I (MOTR COMM 100) | | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | |
| COM 201 | Interpersonal Communication (MOTR COMM 120) | | Reading Proficiency | |
| COM 107 | Public Speaking (MOTR COMM 110) | | Reading Proficiency | |
| | **Credit Hours** | **7** | | |
| | **Total Credit Hours** | **60** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# What are stackable credentials?

Stackable credentials are short-term certificates or credentials that build upon one another and count directly toward a degree. Each credential is composed of courses required for the degree and can be applied toward additional certificates or the full degree.

Earning stackable credentials allows students to:

- gain recognized credentials while progressing toward a degree
- reach meaningful academic milestones along the way
- build workforce-relevant skills prior to graduation.

Students do not need to complete stackable credentials to earn the Engineering Technology, Associate in Applied Science.

# Stackable Credential Academic Plans:

- **Biomedical Electronics Technology, Certificate of Proficiency**
- **HVAC Technician, Certificate of Specialization**
- **Precision Machining Technology, Certificate of Specialization and Computer Aided Design, Certificate of Specialization**
- **Welding Technology, Certificate of Specialization and Welding Technology, Certificate of Proficiency**

# Funeral Service Education: AAS

**Associate in Applied Science | 73 credit hours minimum**

**School of Health Professions**

**Program Website (https://stlcc.edu/programs-academics/pathways/health-professions/funeral-service-education/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

## Program Description:

The Associate in Applied Science degree in Funeral Service Education at St. Louis Community College at Forest Park prepares students for any entry level position as a funeral director and embalmer in a funeral home. The Funeral Service associate degree program at **St. Louis Community College at Forest Park** is accredited by the American Board of Funeral Service Education (ABFSE), 992 Mantua Pike, Suite 108, Woodbury Heights, NJ 08097 (816) 233-3747. Web: **www.abfse.org (http://www.abfse.org/)**. National Board Examination scores, graduation rates and employment rates for this and other ABFSE accredited programs are available at **www.abfse.org (http://www.abfse.org/).** To request a printed copy of this program's scores and rates, go to the Funeral Service Education program office, Forest Park campus, Room W-408, or by email at **dcoughran@stlcc.edu**, or by telephone, 314-644-9327.

Please check the college website **https://www.stlcc.edu/programs-academics/pathways/human-studies/funeral-services-education.aspx** for student learning outcomes and additional updates and information regarding the accreditation status of the program.

Application to the program is selective. Prior to applying for admission to the Funeral Service Education program, the student must:

- Complete BIO 111 with a minimum grade of "C"
- Complete FSE 101 with a minimum grade of "C"
- Complete ENG 101 or ENG 102 with a minimum grade of "C"
- Complete PSY 200 with a minimum grade of "C"
- Submit a program application
- Complete a minimum of 40 hours of documented job shadowing which has been completed and verified under the direct supervision of a licensed funeral director, and must also occur in an unaffiliated and licensed funeral service establishment.

**Location.** This program is offered in its entirety at Forest Park.

**Licensure.** This program meets the educational requirements for state licensure in the following states: Missouri and Illinois. Students interested in pursuing licensure in a different state should contact the program coordinator for more information.

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

## At the completion of the program, students are expected to:

1. explain the importance of funeral service professionals in developing relationships with the families and communities they serve.
2. identify standards of ethical conduct in funeral service practice.
3. interpret how federal, state, and local laws apply to funeral service in order to ensure compliance.
4. apply principles of public health and safety in handling and preparation of human remains.
5. demonstrate technical skills in embalming and restorative art that are necessary for the preparation and handling of human remains.
6. demonstrate skills required for conducting arrangement conferences, visitations, services, and ceremonies.
7. describe the requirements and procedures for burial, cremation, and other accepted forms of final disposition of human remains.
8. describe methods to address the grief-related needs of the bereaved.
9. explain management skills associated with operating a funeral establishment.
10. demonstrate verbal and written communication skills and research skills needed for funeral service practice.

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Pre-Entry Requirements** | | |
| BIO 111 | Introductory Biology (MOTR BIOL 100L) | 4 |
| FSE 101 | History and Sociology of Funeral Service | 3 |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 |
| or ENG 102 | College Composition II (MOTR ENGL 200) | |
| PSY 200 | General Psychology (MOTR PSYC 100) | 3 |
| **General Education** | | |
| MTH 108 | Elementary Applied Mathematics (or higher) | 3 |
| COM 101 | Oral Communication I (MOTR COMM 100) | 3 |
| or COM 107 | Public Speaking (MOTR COMM 110) | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement | 3 |
| ACC 100 | Applied Accounting | 3 |
| **Program Requirements** | | |
| FSE 211 | Microbiology for Funeral Service | 3 |
| FSE 102 | Dynamics of Grief Management | 3 |
| FSE 115 | Fundamentals of Embalming Chemistry | 2 |
| FSE 215 | Advanced Embalming Chemistry | 2 |
| BIO 103 | Human Anatomy for Applied Health Sciences | 3 |
| FSE 103 | Funeral Directing | 3 |
| FSE 104 | Funeral Directing Practicum | 2 |
| FSE 105 | Funeral Directing Practicum II | 2 |
| FSE 106 | Mortuary Law and Ethics | 3 |
| FSE 107 | Funeral Service Merchandising | 2 |
| FSE 201 | Funeral Home Management | 3 |
| FSE 210 | Embalming | 3 |
| FSE 203 | Embalming Practicum I | 2 |
| FSE 205 | Embalming Practicum II | 2 |
| FSE 206 | Restorative Art | 4 |
| FSE 209 | Pathology for Funeral Service | 3 |
| FSE 208 | Funeral Service Seminar | 3 |
| FSE 212 | Embalming II | 3 |
| **Total Credit Hours** | | **73** |

The student must have completed all requirements listed below before applying to the funeral service education program.

# General Requirements

1. **Apply to STLCC as a degree-seeking student.**
2. **Send transcripts**
   - **Official College Transcripts:** An official transcript from each college attended must be sent directly from the college attended to STLCC-Registrar's Office, 5600 Oakland Avenue, St. Louis, 63110, or email: **csr@stlcc.edu.** Hand-carried or faxed transcripts will NOT be accepted.
   - **High School Transcripts or GED:** Required only for students with fewer than 15 hours of college-level work or those who have satisfied the science requirements in high school. **Current high school students must submit a final high school transcript before applying to the funeral service education program.**
3. **Minimum Cumulative GPA of 2.75** in high school or for 15 hours (minimum) of college work. Students with fewer than 15 hours of college credit must have both a 2.75 GPA in high school and a 2.75 GPA in college.
   - **GED Applicants:** must have 15 hours of (100-level) college credits with a 2.75 GPA.
   - **STLCC students with at least 15 college-level credits with a 2.75 GPA** will have met this requirement, regardless of the GPA at other colleges.

- **College transfer students with fewer than 15 STLCC credits:** must have a cumulative 2.75 GPA in college-level credits earned at all colleges attended. **NOTE:** Developmental courses (numbered below 100) completed at any institution will not be counted toward the minimum cumulative GPA.

4. **Reading: Complete the following to meet the reading prerequisite**
   - Demonstrate college-level reading competency.
5. **English: Complete the following to meet the English prerequisite**
   - Completion of ENG 101 English Composition I with a grade of "C" or higher.
6. **Math: Complete the following to meet the math prerequisite**
   - Placement into MTH 108 Elementary Applied Mathematics or higher-level math within the last five years.
7. **Biology: Complete the following to meet the biology prerequisite**
   - Completion of BIO 111 Introduction to Biology with a grade of "C" or higher.
8. **Psychology: Complete the following to meet the psychology prerequisite**
   - Completion of PSY 200 General Psychology with a grade of "C" or higher.

# Funeral Service Education Requirements

The following requirements are specific to the Funeral Services Department.

1. **Job Shadowing:** Complete a minimum of 40 hours of documented job shadowing which has been completed and verified under the direct supervision of a licensed funeral director.
2. **History and Sociology of Funeral Service:** Completion of FSE 101 (https://catalog.stlcc.edu/search/?P=FSE%20101) History and Sociology of Funeral Service with a grade of "C" or higher. Due to the limited funeral home affiliate sites, enrollment in practicum is not guaranteed.

**When all academic and funeral service education criteria have been met, students must submit a separate funeral service education program application, signed by a student success advisor, and returned by email to STLCC-FuneralServices@stlcc.edu. See an advisor to obtain a funeral service education program application.**

**A minimum GPA of 2.5 must be maintained while on the Funeral Service applicant list and once enrolled in the program.**

**NOTE: Admission and degree requirements are subject to change without advance notice.**

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

# Pre-Entry Requirements

| Code | Title | Credit Hours |
|---|---|---|
| FSE 101 | History and Sociology of Funeral Service [1] | 3 |
| BIO 111 | Introductory Biology (MOTR BIOL 100L) | 4 |
| PSY 200 | General Psychology (MOTR PSYC 100) | 3 |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 |
| or ENG 102 | College Composition II (MOTR ENGL 200) | |
| **Total Credit Hours** | | **13** |

[1] FSE 101 is an exploratory course.

# Full-Time Academic Plan

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| Choose one of the following: | | 3 | | |

| | | | | |
|---|---|---|---|---|
| COM 101 | Oral Communication I (MOTR COMM 100) | | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | |
| COM 107 | Public Speaking (MOTR COMM 110) | | Reading Proficiency | |
| FSE 106 | Mortuary Law and Ethics | 3 | Reading Proficiency | |
| FSE 107 | Funeral Service Merchandising | 2 | Reading Proficiency | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | |
| ACC 100 | Applied Accounting | 3 | Reading Proficiency or concurrent enrollment in RDG 079 | |
| | **Credit Hours** | **14** | | |
| **Spring** | | | | |
| MTH 108 | Elementary Applied Mathematics (or higher) | 3 | Reading Proficiency | |
| FSE 102 | Dynamics of Grief Management | 3 | Reading Proficiency | |
| BIO 103 | Anatomy for Funeral Service | 3 | BIO 111 with a minimum grade of "C" and Reading Proficiency | |
| FSE 103 | Funeral Directing | 3 | Reading Proficiency | |
| FSE 104 | Funeral Directing Practicum | 2 | Reading Proficiency | |
| FSE 115 | Fundamentals of Embalming Chemistry | 2 | Reading Proficiency | |
| | **Credit Hours** | **16** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| FSE 105 | Funeral Directing Practicum II | 2 | FSE 103 and FSE 104 with minimum grades of "C" and Reading Proficiency | |
| FSE 201 | Funeral Home Management | 3 | Reading Proficiency | |
| FSE 210 | Embalming | 3 | BIO 103 and FSE 101 with minimum grades of "C", and Reading Proficiency | |
| FSE 203 | Embalming Practicum I | 2 | BIO 103 with a minimum grade of "C" and Reading Proficiency | |
| FSE 215 | Advanced Embalming Chemistry | 2 | FSE 115 with a minimum grade of "C" and Reading Proficiency | |
| FSE 211 | Microbiology for Funeral Service | 3 | BIO 111 and FSE 101 with minimum grades of "C" and Reading Proficiency | |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| FSE 212 | Embalming II | 3 | FSE 210 with a minimum grade of "C" and Reading Proficiency | |
| FSE 205 | Embalming Practicum II | 2 | FSE 210 and FSE 203, both with minimum grades of "C" and Reading Proficiency | |
| FSE 206 | Restorative Art | 4 | FSE 210 with a minimum grade of "C" and Reading Proficiency | |
| FSE 209 | Pathology for Funeral Service | 3 | Admission to AAS/FSE program, BIO 103, FSE 210, and FSE 101 with minimum grades of "C" and Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| FSE 208 | Funeral Service Seminar | 3 | Approval of AAS/FSE Program Director, eligibility for completion of and graduation from the AAS/FSE program and Reading Proficiency | |
| | **Credit Hours** | **15** | | |
| | **Total Credit Hours** | **60** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Program Statistics

| **Year** | 2024 | 2023 | 2022 |
|---|---|---|---|
| **Total Enrolled** | 12 | 43 | 41 |
| **Number of New Students** | 12 | 20 | 15 |
| **Number of Graduates** | 7 | 12 | 13 |
| **Timely Grad*** | 7/7 | 12/12 | 13/13 |
| **Graduation Rate**** | 77% | 86% | 100% |
| **Did not finish***** | 0 | 2 | 0 |
| **Overall % Employed** | 71% | 42% | 69% |
| **Employed in Funeral Service** | 71% | 42% | 62% |

*Timely graduation: complete the program in 1.5 times the designated program length

** Graduation rate reflects cohort graduation rate (% of students from the original cohort completing in the designated year

*** Left before completing the program; did not finish.

# National Board Statistics

| **Single Year** | **School Pass Rate** | **National Pass Rate** |
|---|---|---|
| 2024 Arts | 67% | 78% |
| 2023 Arts | 86% | 78% |
| 2022 Arts | 50% | 69% |
| 2024 Sciences | 71% | 73% |
| 2023 Sciences | 27% | 69% |
| 2022 Sciences | 44% | 64% |

# General Fine Arts: AFA

**Associate in Fine Arts | 60 credit hours minimum**

**School of Communication, Design, and Creative Arts**

**Program Website (https://stlcc.edu/programs-academics/pathways/a-d-h-c/general-fine-arts/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

The Associate in Fine Arts Degree in General Fine Arts is designed for students who plan to transfer to four-year programs to earn a bachelors degree in an art-related discipline. Students may experience both two- and three-dimensional artwork through courses in painting, drawing, ceramics, sculpture, printmaking, design, and other studio areas. Persons interested in this program should possess a strong interest in the visual world and a desire to produce work using traditional as well as non-traditional techniques.

**Locations.** This program is offered in its entirety at Florissant Valley, Forest Park, and Meramec.

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. identify the elements and principles of design that are present in examples of fine and applied art.
2. evaluate works of art based on contemporary standards and historical context.
3. present artwork highlighting relevant concepts and materials using appropriate terminology.
4. explain the qualities of exhibition-worthy and/or professional-level work that reflects the formal, conceptual, and/or media interests of the student's artwork and artistic practice.

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **General Education*** | | |
| ART 101 | Art History - Prehistory to 1300 (MOTR ARTS 101) | 3 |
| ART 102 | Art History - 1300 to Present (MOTR ARTS 102) | 3 |
| or ART 103 | History of Modern Art (MOTR ARTS 100) | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 |
| or ENG 102 | College Composition II (MOTR ENGL 200) | |
| ENG 102 | College Composition II (MOTR ENGL 200) | 3 |
| or COM 101 | Oral Communication I (MOTR COMM 100) | |
| or COM 107 | Public Speaking (MOTR COMM 110) | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) * | 3 |
| **MATH/SCIENCE: Complete MTH 161 (MOTR MATH 120) or higher and one Natural Science course with a MOTR discipline OR two Natural Science courses with a MOTR discipline** * | | **6-8** |
| **Program Requirements** | | |
| ART 140 | Two-Dimensional Design | 3 |
| ART 207 | Three-Dimensional Design | 3 |
| ART 109 | Drawing I (MOTR PERF 105D) | 3 |
| ART 110 | Drawing II | 3 |
| ART 111 | Figure Drawing I | 3 |
| ART 112 | Figure Drawing II | 3 |
| ART 210 | Advanced Drawing | 3 |
| AT 291 | Fine Art Portfolio and Professional Practices | 3 |
| ART 131 | Computer Art Studio | 3 |
| or ART 172 | Digital Photography (MOTR PERF 105GA) | |

| | |
|---|---|
| **Electives*** | |
| Select 12 credit hours with ART or AT prefix, or EDU 211. Consult transfer instituion for elective options. | 12 |
| **Total Credit Hours** | **60-62** |

* Students who are interested in art education will be advised to make particular selections in the areas noted.

# Full-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| ART 101 | Art History - Prehistory to 1300 (MOTR ARTS 101) | 3 | Reading Proficiency | |
| ART 140 | Two-Dimensional Design | 3 | Reading Proficiency | |
| ART 109 | Drawing I (MOTR PERF 105D) | 3 | Reading Proficiency | Gateway/Critical Course |
| ART 111 | Figure Drawing I | 3 | Reading Proficiency | Gateway/Exploratory/Critical Course |
| Select one of the following: | | 3 | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| ENG 102 | College Composition II (MOTR ENGL 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| ART 102<br>or 103 | Art History - 1300 to Present (MOTR ARTS 102)<br>or History of Modern Art (MOTR ARTS 100) | 3 | Reading Proficiency | |
| ART 207 | Three-Dimensional Design | 3 | Reading Proficiency | |
| ART 110 | Drawing II | 3 | ART 109 with a minimum grade of "C" and Reading Proficiency | |
| ART 112 | Figure Drawing II | 3 | ART 111 with a minimum grade of "C" and Reading Proficiency | |
| Select one of the following: | | 3-4 | | Students have the option of taking one math and one science OR two sciences. |
| MTH 161 | Quantitative Reasoning (MOTR MATH 120) (or higher) | | Satisfactory score on placement test and Reading Proficiency | See footnote #1 below. |
| XXX xxx | MOTR Natural Science Elective (p. 416) | | | See list below of recommended lab and non-lab science courses. |
| | **Credit Hours** | **15-16** | | |

| | | | | |
|---|---|---|---|---|
| **Second Year** | | | | |
| **Fall** | | | | |
| ART 210 | Advanced Drawing | 3 | ART 110 and ART 112 with minimum grades of "C" and Reading Proficiency | |
| ART 131<br>or 172 | Computer Art Studio<br>or Digital Photography (MOTR PERF 105GA) | 3 | Reading Proficiency | Students interested in art education should take ART 131. |
| XXX xxx | Art Elective | 3 | | Four art electives (12 credit hours) are required. Students may choose a course with an ART or AT prefix or EDU 211. See footnote #2 below. |
| XXX xxx | Art Elective | 3 | | Four art electives (12 credit hours) are required. Students may choose a course with an ART or AT prefix or EDU 211. See footnote #2 below. |
| Select one of the following: | | 3 | | Students interested in art education should take COM 101. |
| ENG 102 | College Composition II (MOTR ENGL 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| COM 101 | Oral Communication I (MOTR COMM 100) | | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | |
| COM 107 | Public Speaking (MOTR COMM 110) | | Reading Proficiency | |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| AT 291 | Fine Art Portfolio and Professional Practices | 3 | ART 210 with a minimum grade of "C" and Reading Proficiency | Capstone Course. Apply for graduation. |
| XXX xxx | Art Elective | 3 | | Four art electives (12 credit hours) are required. Students may choose a course with an ART or AT prefix or EDU 211. See footnote #2 below. |
| XXX xxx | Art Elective | 3 | | Four art electives (12 credit hours) are required. Students may choose a course with an ART or AT prefix or EDU 211. See footnote #2 below. |
| XXX xxx | MOTR Natural Science Elective (p. 416) | 3-4 | | See list below of recommended lab and non-lab science courses. See footnote #1 below. |
| XXX xxx | Social and Behavioral Sciences: Civics Requirement (p. 416) | 3 | | |
| | **Credit Hours** | **15-16** | | |
| | **Total Credit Hours** | **60-62** | | |

1
- Students interested in the Art Education path should take one lab science and MTH 161.
- Students who are NOT on the Art Education path have the option of taking one math and one science, OR two sciences. They may choose science with no lab (3 credits), lab science (4 credits), or MTH 161.

2
- The following is a list of suggested courses for the first art elective: ART 113, ART 114, ART 115, or ART 116.
- Students interested in Art Education should take EDU 211 and ART 113 **OR** ART 116.
- Students interested in pursuing further studies after successfully completing 100-level courses may choose to take ART/AT 200-level courses. For example, students who have successfully completed ART 113 Ceramics I may subsequently choose ART 213 Ceramics II and AT 213 Advanced Ceramics.
- Consult transfer institution for elective options.

# Recommended Science Electives

| Code | Title | Credit Hours |
|---|---|---|
| **Non-Lab Science Courses** | | |
| BIO 109 | Human Biology (MOTR LIFS 100) | 3 |
| BIO 117 | Conservation and Ecology (MOTR BIOL 100EC) | 3 |
| BIO 154 | The Biology of Human Sex (MOTR LIFS 100R) | 3 |
| BIO 151 | Biology of Human Health and Disease (MOTR LIFS 100D) | 3 |
| GEO 100 | Earth Science (MOTR PHYS 110ES) | 3 |
| PSI 101 | Physical Science (MOTR PHYS 110) | 3 |
| PSI 111 | Introduction to Astronomy I (MOTR ASTR 100) | 3 |
| **Lab Science Courses** | | |
| BIO 111 | Introductory Biology (MOTR BIOL 100L) | 4 |
| PSI 115<br>& PSI 111 | Observational Astronomy (MOTR ASTR 100L)<br>and Introduction to Astronomy I (MOTR ASTR 100) | 4 |
| GEO 101<br>& GEO 100 | Earth Science Laboratory (MOTR PHYS 110LES)<br>and Earth Science (MOTR PHYS 110ES) | 4 |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Part-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| ART 140 | Two-Dimensional Design | 3 | Reading Proficiency | |
| ART 109 | Drawing I (MOTR PERF 105D) | 3 | Reading Proficiency | Gateway/Critical Course |
| ART 111 | Figure Drawing I | 3 | Reading Proficiency | Gateway/Exploratory/Critical Course |
| | **Credit Hours** | **9** | | |
| **Spring** | | | | |
| ART 102<br>or 103 | Art History - 1300 to Present (MOTR ARTS 102)<br>or History of Modern Art (MOTR ARTS 100) | 3 | Reading Proficiency | |
| ART 110 | Drawing II | 3 | ART 109 with a minimum grade of "C" and Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| ART 112 | Figure Drawing II | 3 | ART 111 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **9** | | |
| **Summer** | | | | |
| Select one of the following: | | 3 | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| ENG 102 | College Composition II (MOTR ENGL 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| Select one of the following: | | 3-4 | | Students have the option of taking one math and one science OR two sciences. |
| MTH 161 | Quantitative Reasoning (MOTR MATH 120) (or higher) | | Satisfactory score on placement test and Reading Proficiency | See footnote #1 below. |
| XXX xxx | MOTR Natural Science Elective (p. 416) | | | See list below of recommended lab and non-lab science courses. |
| | **Credit Hours** | **6-7** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| ART 101 | Art History - Prehistory to 1300 (MOTR ARTS 101) | 3 | Reading Proficiency | |
| ART 210 | Advanced Drawing | 3 | ART 110 and ART 112 with minimum grades of "C" and Reading Proficiency | |
| XXX xxx | Art Elective | 3 | | Four art electives (12 credit hours) are required. Students may choose a course with an ART or AT prefix or EDU 211. See footnote #2 below. |
| | **Credit Hours** | **9** | | |
| **Spring** | | | | |
| ART 131<br>or 172 | Computer Art Studio<br>or Digital Photography (MOTR PERF 105GA) | 3 | Reading Proficiency | Students interested in art education should take ART 131. |
| ART 207 | Three-Dimensional Design | 3 | Reading Proficiency | |
| XXX xxx | Art Elective | 3 | | Four art electives (12 credit hours) are required. Students may choose a course with an ART or AT prefix or EDU 211. See footnote #2 below. |
| | **Credit Hours** | **9** | | |
| **Summer** | | | | |
| Select one of the following: | | 3 | | |
| ENG 102 | College Composition II (MOTR ENGL 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| COM 101 | Oral Communication I (MOTR COMM 100) | | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | Students interested in art education should take COM 101. |
| COM 107 | Public Speaking (MOTR COMM 110) | | Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| XXX xxx | Social & Behavioral Sciences: Civics (p. 416) | 3 | | |
| | **Credit Hours** | **6** | | |
| **Third Year** | | | | |
| **Fall** | | | | |
| XXX xxx | Art Elective | 3 | | Four art electives (12 credit hours) are required. Students may choose a course with an ART or AT prefix or EDU 211. See footnote #2 below. |
| XXX xxx | MOTR Natural Science Elective (p. 416) | 3-4 | | See list below of recommended lab and non-lab science courses. See footnote #1 below. |
| | **Credit Hours** | **6-7** | | |
| **Spring** | | | | |
| AT 291 | Fine Art Portfolio and Professional Practices | 3 | ART 210 with a minimum grade of "C" and Reading Proficiency | Capstone class. Apply for graduation. |
| XXX xxx | Art Elective | 3 | | Four art electives (12 credit hours) are required. Students may choose a course with an ART or AT prefix or EDU 211. See footnote #2 below. |
| | **Credit Hours** | **6** | | |
| | **Total Credit Hours** | **60-62** | | |

1
- Students interested in the Art Education path should take one lab science and MTH 161.
- Students who are NOT on the Art Education path have the option of taking one math and one science, OR two sciences. They may choose science with no lab (3 credits), lab science (4 credits), or MTH 161.

2
- The following is a list of suggested courses for the first art elective: ART 113, ART 114, ART 115, or ART 116.
- Students interested in Art Education should take EDU 211 and ART 113 **OR** ART 116.
- Students interested in pursuing further studies after completing 100-level courses may choose to take ART/AT 200-level courses. For example, students who have completed ART 113 may subsequently choose ART 213 and AT 213.
- Consult transfer institution for elective options.

# Recommended Science Electives

| Code | Title | Credit Hours |
|---|---|---|
| **Non-Lab Science Courses** | | |
| BIO 109 | Human Biology (MOTR LIFS 100) | 3 |
| BIO 117 | Conservation and Ecology (MOTR BIOL 100EC) | 3 |
| BIO 154 | The Biology of Human Sex (MOTR LIFS 100R) | 3 |
| BIO 151 | Biology of Human Health and Disease (MOTR LIFS 100D) | 3 |
| GEO 100 | Earth Science (MOTR PHYS 110ES) | 3 |
| PSI 101 | Physical Science (MOTR PHYS 110) | 3 |
| PSI 111 | Introduction to Astronomy I (MOTR ASTR 100) | 3 |
| **Lab Science Courses** | | |
| BIO 111 | Introductory Biology (MOTR BIOL 100L) | 4 |
| PSI 115<br>& PSI 111 | Observational Astronomy (MOTR ASTR 100L)<br>and Introduction to Astronomy I (MOTR ASTR 100) | 4 |
| GEO 101<br>& GEO 100 | Earth Science Laboratory (MOTR PHYS 110LES)<br>and Earth Science (MOTR PHYS 110ES) | 4 |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Articulation Agreements

Articulation agreements are formal partnerships between St. Louis Community College and colleges or universities that outline how completed coursework transfers toward a specific degree program. These agreements help students continue their education by ensuring the credits earned at STLCC apply toward bachelor's degree requirements at the partner institution. STLCC continually collaborates with colleges and universities to establish new agreements that support a smooth transfer process.

Below is a list of current partner institutions with active articulation agreements for the Associate in Fine Arts - General Fine Arts. Some programs include links to academic plans. If a program does not have a linked plan available, students should meet with an academic advisor to obtain the appropriate plan and guidance.

## Kansas City Art Institute

- Animation, Bachelor of Fine Arts
- Ceramics, Bachelor of Fine Arts
- Painting, Bachelor of Fine Arts
- Printmaking, Bachelor of Fine Arts
- Sculpture, Bachelor of Fine Arts

## Savannah College of Art and Design

- Paintmaking, Bachelor of Fine Arts
- Printmaking, Bachelor of Fine Arts
- Sculpture, Bachelor of Fine Arts

## School of the Art Institute of Chicago

- Bachelor of Fine Arts

## Webster University

- Bachelor of Fine Arts with an Emphasis in Studio Art (https://catalog.stlcc.edu/programs/signed-articulation-agreements/webster-studio-art/#afageneralfineartspathwaytext)

# General STEM Transfer Studies: AS

**Associate in Science | 60 credit hours minimum**

**School of Science, Technology, Engineering, and Math (STEM)**

**Program Website (https://stlcc.edu/pathways/general-stem-transfer-studies/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

St. Louis Community College's General STEM Transfer Studies, Associate in Science degree program is designed for students who plan to transfer to a four-year college or university and major in one of the traditional STEM areas (science, technology, engineering, math) with a heavy emphasis on undergraduate mathematics or science.

Students should become familiar with the requirements at the institution to which they plan to transfer and select their transfer courses carefully. Many bachelor's degree programs have very specific requirements for the freshman and sophomore years, and it is the transferring student's

responsibility to ensure that courses will apply to the bachelor's degree. Students are encouraged to talk to an advisor to assist in planning a program of study or if they are considering a change in academic plans. Information about the requirements of many transfer institutions is available at stlcc.edu/transfer.

**Locations.** This program is offered in its entirety at Florissant Valley, Forest Park, Meramec, and Wildwood.

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. demonstrate analytic thinking and problem solving skills in mathematics and the sciences.
2. communicate mathematically using verbal, graphical, numerical, and symbolic representations.
3. demonstrate a general knowledge of biological, chemical, computer science, physical, mathematics, or engineering disciplines.
4. apply quantitative methods to science, engineering, or computer science.
5. use technology in mathematical and scientific problem solving.

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **General Education** | | |
| MTH 210 | Analytic Geometry and Calculus I | 5 |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 |
| or ENG 102 | College Composition II (MOTR ENGL 200) | |
| or ENG 103 | Report Writing (MOTR ENGL 110) | |
| MOTR Natural Science | Students must complete seven (7) credit hours. | 7 |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement | 3 |
| **Electives** | | |
| Electives in science, technology, engineering, and math are recommended to fulfill requirements of a 4-yr program. Elective credits within the General STEM AS degree allow the student to begin working toward an academic major by selecting courses within in a STEM discipline or to explore various STEM subjects at an introductory level. Students should consult their transfer institution and/or work with an advisor for best course options. | | 42 |
| **Total Credit Hours** | | **60** |

# Focus Areas

These focus areas are intended for students who plan to transfer to the University of Missouri - St. Louis (UMSL) or another school, after completion of their associate's degree at St. Louis Community College. Your official degree that you will be pursuing at St. Louis Community College within these focus areas is the Associate in Science - General STEM Transfer Studies.

- **Focus Area: Biology (p. 227)**
- **Focus Area: Computer Science (p. 230)**
- **Focus Area: Engineering (p. 234)**
- **Focus Area: Mathematics (p. 238)**

# Articulation Agreements

Articulation agreements are formal partnerships between St. Louis Community College and colleges or universities that outline how completed coursework transfers toward a specific degree program. These agreements help students continue their education by ensuring the credits earned at STLCC apply toward

bachelor's degree requirements at the partner institution. STLCC continually collaborates with colleges and universities to establish new agreements that support a smooth transfer process.

Below is a list of current partner institutions with active articulation agreements for the Associate in Science - General STEM Transfer Studies. Some programs include links to academic plans. If a program does not have a linked plan available, students should meet with an academic advisor to obtain the appropriate plan and guidance.

### Logan University

- Human Biology, Bachelor of Science

# Focus Area: Biology

This focus area is intended for students who plan to major in Biology at a 4 year college or university, after completion of their associate's degree at St. Louis Community College. Your official degree that you will be pursuing at St. Louis Community College within this focus area is the **Associate in Science - General STEM Transfer Studies (p. 226).**

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

# Focus Area: Biology Academic Plan

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| Choose one of the following: | | 3 | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| ENG 102 | College Composition II (MOTR ENGL 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| ENG 103 | Report Writing (MOTR ENGL 110) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| XXX xxx | Elective | 4 | | Check with transfer institution for best option. |
| BIO 140 | Principles of Biology I (MOTR BIOL 150L) | 5 | MTH 140 or MTH 140S or MTH 160S with a minimum grade of "C" or placement into MTH 160, and Reading Proficiency | |
| CHM 105 | General Chemistry I (MOTR CHEM 150L) | 5 | MTH 140 (or MTH 140S or at least one and a half years of high school algebra) and CHM 101 with a minimum grade of "C" or one year of high school chemistry, and Reading Proficiency | |
| | **Credit Hours** | **17** | | |
| **Spring** | | | | |
| XXX xxx | Elective | 4 | | Check with transfer institution for best option. |
| BIO 141 | Principles of Biology II | 4 | BIO 140 with a minimum grade of "C" and Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| CHM 106 | General Chemistry II | 5 | CHM 105 and (MTH 160 or MTH 160A or MTH 160B or MTH 160C or MTH 160S) with minimum grades of "C" or test in MTH 170 or higher on the Math placement test and Reading Proficiency | |
| | **Credit Hours** | **13** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| XXX xxx | Elective | 4 | | Check with transfer institution for best option. |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | |
| MCE 100 | Missouri Civics Examination | 0 | | |
| PHY 111 | College Physics I (MOTR PHYS 150L) | 4 | MTH 160 (or MTH 160S) with a minimum grade of "C" and Reading Proficiency | |
| CHM 206 | Organic Chemistry I | 3 | CHM 106 with a minimum grade of "C" and Reading Proficiency | |
| CHM 210 | Organic Chemistry Lab I | 2 | Concurrent or prior enrollment of CHM 206 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **16** | | |
| **Spring** | | | | |
| MTH 210 | Analytic Geometry and Calculus I | 5 | MTH 185 or (MTH 160 or MTH 160S and MTH 170) with grades of "C" or better or satisfactory score on placement test and Reading Proficiency | |
| CHM 207 | Organic Chemistry II | 3 | CHM 206 with a minimum grade of "C" and Reading Proficiency | |
| CHM 211 | Organic Chemistry Lab II | 2 | Concurrent or prior enrollment in CHM 207 with a minimum grade of "C" and CHM 210 with a minimum grade of "C" and Reading Proficiency | |
| XXX xxx | Elective | 4 | | Check with transfer institution for best option. |
| | **Credit Hours** | **14** | | |
| | **Total Credit Hours** | **60** | | |

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

This academic plan is a recommended sequence for this pathway. It serves as **a general guideline** to help you build a course schedule each term that supports your timely completion. The College has made every effort to ensure its accuracy**.** However, **the map is not a substitute for academic advisement—contact your advisor if you have any questions about your degree requirements.**

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

# Focus Area: Biology Academic Plan (UMSL track)

This academic plan is for students who intend to transfer to the University of Missouri - St. Louis (UMSL) and major in the Bachelor of Arts in Biology.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | This fulfills the written communication requirement. |
| XXX xxx | MOTR Social & Behavioral Science (p. 416) | 3 | | This fulfills part of the elective requirement. |
| BIO 140 | Principles of Biology I (MOTR BIOL 150L) | 5 | MTH 140 or MTH 140S or MTH 160S with a minimum grade of "C" or placement into MTH 160, and Reading Proficiency | This fulfills part of the natural science requirement. |
| CHM 105 | General Chemistry I (MOTR CHEM 150L) | 5 | MTH 140 (or MTH 140S or at least one and a half years of high school algebra) and CHM 101 with a minimum grade of "C" or one year of high school chemistry, and Reading Proficiency | This fulfills part of the natural science requirement. |
| | **Credit Hours** | **16** | | |
| **Spring** | | | | |
| MTH 210 | Analytic Geometry and Calculus I | 5 | MTH 185 or (MTH 160 or MTH 160S and MTH 170) with grades of "C" or better or satisfactory score on placement test and Reading Proficiency | This fulfills the mathematics requirement. |
| BIO 141 | Principles of Biology II | 4 | BIO 140 with a minimum grade of "C" and Reading Proficiency | This fulfills part of the elective requirement. |
| CHM 106 | General Chemistry II | 5 | CHM 105 and (MTH 160 or MTH 160A or MTH 160B or MTH 160C or MTH 160S) with minimum grades of "C" or test in MTH 170 or higher on the Math placement test and Reading Proficiency | This fulfills part of the elective requirement. |
| | **Credit Hours** | **14** | | |
| **Summer** | | | | |
| XXX xxx | MOTR Social and Behavioral Science (p. 416) | 3 | | This fulfills part of the elective requirement. |
| | **Credit Hours** | **3** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| MCE 100 | Missouri Civics Examination | 0 | | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | This fulfills the civics requirement. |
| CHM 206 | Organic Chemistry I | 3 | CHM 106 with a minimum grade of "C" and Reading Proficiency | This fulfills part of the elective requirement. |

| | | | | |
|---|---|---|---|---|
| CHM 210 | Organic Chemistry Lab I | 2 | Concurrent or prior enrollment of CHM 206 with a minimum grade of "C" and Reading Proficiency | This fulfills part of the elective requirement. |
| PHY 111 | College Physics I (MOTR PHYS 150L) | 4 | MTH 160 (or MTH 160S) with a minimum grade of "C" and Reading Proficiency | This fulfills part of the elective requirement. |
| | **Credit Hours** | **12** | | |
| **Spring** | | | | |
| BIO 225 | Genetics | 3 | BIO 140 with a minimum grade of "C" and Reading Proficiency | This fulfills part of the elective requirement. |
| BIO 235 | Genetics Laboratory | 2 | BIO 140 with a minimum grade of "C", concurrent or prior enrollment in BIO 225 with a minimum grade of "C", and Reading Proficiency | This fulfills part of the elective requirement. |
| PHY 112 | College Physics II | 4 | PHY 111 with a minimum grade of "C" and Reading Proficiency | This fulfills part of the elective requirement. |
| Choose one of the following: | | 3 | | This fulfills part of the elective requirement. |
| PHL 103 | World Religions (MOTR RELG 100) | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| ENG 231 | World Literature (MOTR LITR 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| XXX xxx | Foreign Language | 4 | | This fulfills part of the elective requirement. Foreign Language courses are required for all Bachelor of Arts degrees at UMSL. If a student intends to major in the Bachelor of Science in Biology, other options could be any MOTR Humanities or COM 107. Check with an advisor for the best option. |
| | **Credit Hours** | **16** | | |
| | **Total Credit Hours** | **61** | | |

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Focus Area: Computer Science

This focus area is intended for students who plan to major in Computer Science at a 4 year college or university, after completion of their associate's degree at St. Louis Community College. Your official degree that you will be pursuing at St. Louis Community College within this focus area is the **Associate in Science - General STEM Transfer Studies (https://catalog.stlcc.edu/programs/general-stem-transfer-studies-associate-science/#programrequirementstext).**

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

# Focus Area: Computer Science Academic Plan

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| Choose one of the following: | | 3 | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| ENG 102 | College Composition II (MOTR ENGL 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| ENG 103 | Report Writing (MOTR ENGL 110) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| MTH 210 | Analytic Geometry and Calculus I | 5 | MTH 185 or (MTH 160 or MTH 160S and MTH 170) with grades of "C" or better or satisfactory score on placement test and Reading Proficiency | |
| IS 167 | C++ Programming I | 4 | Reading Proficiency | |
| XXX xxx | Elective | 4 | | Students should review the academic requirements of their preferred 4-year transfer institution to select courses. |
| | **Credit Hours** | **16** | | |
| **Spring** | | | | |
| XXX xxx | Elective | 4 | | MTH 220 is recommended. |
| XXX xxx | Elective | 4 | | IS 267 is recommended. |
| XXX xxx | Elective | 4 | | Students should review the academic requirements of their preferred 4-year transfer institution to select courses. |
| | **Credit Hours** | **12** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| XXX xxx | Elective | 5 | | MTH 230 or MTH 212 are recommended. |
| XXX xxx | Elective | 5 | | Students should review the academic requirements of their preferred 4-year transfer institution to select courses. |
| XXX xxx | MOTR Natural Science with Lab (p. 416) | 4 | | BIO 111, BIO 140, CHM 105, PHY 111, and PHY 122 are recommended. |
| XXX xxx | Elective | 4 | | Students should review the academic requirements of their preferred 4-year transfer institution to select courses. |
| | **Credit Hours** | **18** | | |
| **Spring** | | | | |
| XXX xxx | MOTR Natural Science with Lab (p. 416) | 3 | | |
| XXX xxx | Elective | 4 | | Students should review the academic requirements of their preferred 4-year transfer institution to select courses. |

| | | | | |
|---|---|---|---|---|
| XXX xxx | Elective | 3 | | Students should review the academic requirements of their preferred 4-year transfer institution to select courses. |
| XXX xxx | Elective | 4 | | Students should review the academic requirements of their preferred 4-year transfer institution to select courses. |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | | | |
| MCE 100 | Missouri Civics Examination | 0 | | |
| | **Credit Hours** | **14** | | |
| | **Total Credit Hours** | **60** | | |

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

This academic plan is a recommended sequence for this pathway. It serves as **a general guideline** to help you build a course schedule each term that supports your timely completion. The College has made every effort to ensure its accuracy**.** However, **the map is not a substitute for academic advisement—contact your advisor if you have any questions about your degree requirements.**

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

# Focus Area: Computer Science Academic Plan (UMSL track)

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | This fulfills the written communications requirement. |
| Choose one of the following: | | 3 | | This fulfills part of the elective requirement. |
| COM 101 | Oral Communication I (MOTR COMM 100) | | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | |
| COM 103 | Small Group Communication (MOTR COMM 125) | | Reading Proficiency | |
| COM 107 | Public Speaking (MOTR COMM 110) | | Reading Proficiency | |
| COM 201 | Interpersonal Communication (MOTR COMM 120) | | Reading Proficiency | |
| MTH 210 | Analytic Geometry and Calculus I | 5 | MTH 185 or (MTH 160 or MTH 160S and MTH 170) with grades of "C" or better or satisfactory score on placement test and Reading Proficiency | This fulfills the mathematics requirement. |

| | | | | |
|---|---|---|---|---|
| XXX xxx | MOTR Foreign Language | 4 | | This fulfills part of the elective requirement. |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| ENG 102 | College Composition II (MOTR ENGL 200) | 3 | ENG 101 with a minimum grade of "C" and Reading Proficiency | This fulfills part of the elective requirement. |
| XXX xxx | Social and Behavioral Science MOTR Elective (p. 416) | 3 | | This fulfills part of the elective requirement. |
| MTH 220 | Analytic Geometry and Calculus II | 5 | MTH 210 with a grade of "C" or better and Reading Proficiency | This fulfills part of the elective requirement. |
| XXX xxx | MOTR Foreign Language | 4 | | This fulfills part of the elective requirement. |
| | **Credit Hours** | **15** | | |
| **Summer** | | | | |
| MCE 100 | Missouri Civics Examination | 0 | | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | This fulfills the civics requirement. |
| | **Credit Hours** | **3** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| XXX xxx | MOTR Natural Science Elective | 4-5 | | Science courses must be from two different disciplines. See recommended courses listed below. |
| IS 167 | C++ Programming I | 4 | Reading Proficiency | This fulfills part of the elective requirement. |
| Choose one of the following: | | 3 | | This fulfills the elective requirement. |
| PHL 103 | World Religions (MOTR RELG 100) | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| ENG 231 | World Literature (MOTR LITR 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| MTH 215 | Linear Algebra | 3 | MTH 210 with a grade of "C" or better and Reading Proficiency | This fulfills part of the elective requirement. |
| | **Credit Hours** | **14-15** | | |
| **Spring** | | | | |
| XXX xxx | MOTR Natural Science Elective | 4-5 | | Science courses must be from two different disciplines. See recommended courses listed below. |
| IS 267 | C++ Programming II | 4 | IS 167 with a minimum grade of "C" and Reading Proficiency | This fulfills part of the elective requirement. |
| XXX xxx | MOTR Social and Behavioral Science Elective (p. 416) | 3 | | This fulfills part of the elective requirement. |
| XXX xxx | Elective | 3 | | See Advisor for recommendation. |
| | **Credit Hours** | **14-15** | | |
| | **Total Credit Hours** | **61-63** | | |

## Natural Science Elective

| Code | Title | Credit Hours |
|---|---|---|
| **MOTR BIOL Discipline** | | |
| BIO 110 | General Zoology (MOTR BIOL 100LZ) | 4 |
| BIO 111 | Introductory Biology (MOTR BIOL 100L) | 4 |
| BIO 124 | General Botany I (MOTR BIOL 100LB) | 4 |
| BIO 140 | Principles of Biology I (MOTR BIOL 150L) | 5 |
| **MOTR CHEM Discipline** | | |
| CHM 105 | General Chemistry I (MOTR CHEM 150L) | 5 |
| **MOTR PHYS Discipline** | | |
| PHY 111 | College Physics I (MOTR PHYS 150L) | 4 |
| PHY 122 | Engineering Physics I (MOTR PHYS 200L) | 5 |
| PSI 125 | Introduction to Atmospheric Science (MOTR PHYS 110LAS) | 4 |

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Focus Area: Engineering

This focus area is intended for students who plan to major in Engineering at a 4 year college or university, after completion of their associate's degree at St. Louis Community College. Your official degree that you will be pursuing at St. Louis Community College within this focus area is the **Associate in Science - General STEM Transfer Studies (p. 226).**

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

# Focus Area: Engineering Academic Plan

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| MTH 210 | Analytic Geometry and Calculus I | 5 | MTH 185 or (MTH 160 or MTH 160S and MTH 170) with grades of "C" or better or satisfactory score on placement test and Reading Proficiency | |
| CHM 105 | General Chemistry I (MOTR CHEM 150L) | 5 | MTH 140 (or MTH 140S or at least one and a half years of high school algebra) and CHM 101 with a minimum grade of "C" or one year of high school chemistry, and Reading Proficiency | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |

| | | | | |
|---|---|---|---|---|
| ESC 100 | Engineering Computer Applications and Design | 3 | MTH 140 (or MTH 140S) or higher with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **16** | | |
| **Spring** | | | | |
| MTH 220 | Analytic Geometry and Calculus II | 5 | MTH 210 with a grade of "C" or better and Reading Proficiency | |
| PHY 122 | Engineering Physics I (MOTR PHYS 200L) | 5 | MTH 210 with a minimum grade of "C" and Reading Proficiency | |
| ESC 101 | Scientific Computer Programming | 3 | MTH 160 (or MTH 160S) or higher with a minimum grade of "C" and Reading Proficiency | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | | | |
| MCE 100 | Missouri Civics Examination | 0 | | |
| | **Credit Hours** | **13** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| MTH 230 | Analytic Geometry and Calculus III | 5 | MTH 220 with a grade of "C" or better and Reading Proficiency | |
| PHY 223 | Engineering Physics II | 5 | PHY 122 and MTH 220 with a minimum grades of "C" and Reading Proficiency | |
| ESC 203 | Engineering Statics | 3 | PHY 122 with a minimum grade of "C" and Reading Proficiency | |
| ESC 200 | Engineering Circuits I | 4 | PHY 122 with a minimum grade of "C", concurrent or prior enrollment in MTH 230 with a minimum grade of "C", and Reading Proficiency | |
| | **Credit Hours** | **17** | | |
| **Spring** | | | | |
| MTH 240 | Differential Equations | 3 | MTH 230 with a grade of "C" or better and Reading Proficiency | |
| Choose one of the following: | | 3 | | |
| ENG 102 | College Composition II (MOTR ENGL 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| ENG 103 | Report Writing (MOTR ENGL 110) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| COM 101 | Oral Communication I (MOTR COMM 100) | | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | |
| COM 107 | Public Speaking (MOTR COMM 110) | | Reading Proficiency | |
| XXX xxx | Elective | 4 | | See suggested list below or check with transfer school. |
| XXX xxx | Elective | 4 | | See suggested list below or check with transfer school. |
| | **Credit Hours** | **14** | | |
| | **Total Credit Hours** | **60** | | |

## Suggested Electives

| Code | Title | Credit Hours |
|---|---|---|
| ANT 102 | Introduction to Cultural Anthropology (MOTR ANTH 201) | 3 |
| CHM 106 | General Chemistry II | 5 |
| ECO 151 | Principles of Macroeconomics (MOTR ECON 101) | 3 |
| ECO 152 | Principles of Microeconomics (MOTR ECON 102) | 3 |
| EGR 100 | Engineering Drawing | 3 |
| ESC 204 | Engineering Dynamics | 3 |
| ESC 205 | Mechanics of Materials | 3 |
| ESC 206 | Strength of Materials Lab | 1 |
| ESC 207 | Engineering Thermodynamics | 3 |
| ME 249 | Materials and Metallurgy | 3 |
| PHL 103 | World Religions (MOTR RELG 100) | 3 |
| PSY 200 | General Psychology (MOTR PSYC 100) | 3 |

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

This academic plan is a recommended sequence for this pathway. It serves as **a general guideline** to help you build a course schedule each term that supports your timely completion. The College has made every effort to ensure its accuracy**.** However, **the map is not a substitute for academic advisement—contact your advisor if you have any questions about your degree requirements.**

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

# Focus Area: Engineering Academic Plan (UMSL track)

This plan is designed for those students wishing to major in Civil Engineering, Mechanical Engineering, or Electrical Engineering at the University of Missouri - St. Louis (UMSL) through their Joint Engineering Program with Washington University.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | This fulfills the written communications requirement. |
| MTH 210 | Analytic Geometry and Calculus I [1] | 5 | MTH 185 or (MTH 160 or MTH 160S and MTH 170) with grades of "C" or better or satisfactory score on placement test and Reading Proficiency | This fulfills the mathematics requirement. |
| CHM 105 | General Chemistry I (MOTR CHEM 150L) [1] | 5 | MTH 140 (or MTH 140S or at least one and a half years of high school algebra) and CHM 101 with a minimum grade of "C" or one year of high school chemistry, and Reading Proficiency | This fulfills part of the natural science requirement. |

| | | | | |
|---|---|---|---|---|
| ANT 102 | Introduction to Cultural Anthropology (MOTR ANTH 201) | 3 | Reading Proficiency or concurrent enrollment in RDG 079 | This fulfills part of the elective requirement. |
| | **Credit Hours** | **16** | | |
| **Spring** | | | | |
| PHY 122 | Engineering Physics I (MOTR PHYS 200L) [1] | 5 | MTH 210 with a minimum grade of "C" and Reading Proficiency | This fulfills part of the natural science requirement. |
| MTH 220 | Analytic Geometry and Calculus II [1] | 5 | MTH 210 with a grade of "C" or better and Reading Proficiency | This fulfills part of the elective requirement. |
| Choose from the following: | | 3-4 | | This fulfills part of the elective requirement. |
| ESC 101 | Scientific Computer Programming [1] | | MTH 160 (or MTH 160S) or higher with a minimum grade of "C" and Reading Proficiency | |
| IS 167 | C++ Programming I [1] | | Reading Proficiency | |
| XXX xxx | MOTR Social and Behavioral Science (p. 416) | 3 | | This fulfills part of the elective requirement. |
| | **Credit Hours** | **16-17** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| PHY 223 | Engineering Physics II [1] | 5 | PHY 122 and MTH 220 with a minimum grades of "C" and Reading Proficiency | This fulfills part of the elective requirement. |
| MTH 230 | Analytic Geometry and Calculus III [1] | 5 | MTH 220 with a grade of "C" or better and Reading Proficiency | This fulfills part of the elective requirement. |
| ESC 203 | Engineering Statics [1] | 3 | PHY 122 with a minimum grade of "C" and Reading Proficiency | This fulfills part of the elective requirement. |
| XXX xxx | MOTR Social and Behavioral Science (p. 416) | 3 | | This fulfills part of the elective requirement. |
| | **Credit Hours** | **16** | | |
| **Spring** | | | | |
| MTH 240 | Differential Equations [1] | 3 | MTH 230 with a grade of "C" or better and Reading Proficiency | This fulfills part of the elective requirement. |
| ESC 204 | Engineering Dynamics [1] | 3 | ESC 203 with a minimum grade of "C" and Reading Proficiency | This fulfills part of the elective requirement. |
| ESC 205 | Mechanics of Materials [1] | 3 | ESC 203 with a minimum grade of "C" and Reading Proficiency | This fulfills part of the elective requirement. |
| MCE 100 | Missouri Civics Examination | 0 | | |
| Choose one of the following: | | 3 | | This fulfills the civics requirement. |
| HST 101 | United States History to 1865 (MOTR HIST 101) | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| HST 102 | United States History from 1865 to the Present (MOTR HIST 102) | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| | **Credit Hours** | **12** | | |
| | **Total Credit Hours** | **60-61** | | |

[1] A student must earn a 2.5 GPA over the sequence of pre-engineering courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Focus Area: Mathematics

This focus area is intended for students who plan to major in Mathematics at a 4 year college or university, after completion of their associate's degree at St. Louis Community College. Your official degree that you will be pursuing at St. Louis Community College within this focus area is the **Associate in Science - General STEM Transfer Studies (p. 225).**

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

# Focus Area: Mathematics Academic Plan

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| Choose one of the following: | | 3 | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| ENG 102 | College Composition II (MOTR ENGL 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| ENG 103 | Report Writing (MOTR ENGL 110) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | |
| MCE 100 | Missouri Civics Examination | 0 | | |
| MTH 210 | Analytic Geometry and Calculus I | 5 | MTH 185 or (MTH 160 or MTH 160S and MTH 170) with grades of "C" or better or satisfactory score on placement test and Reading Proficiency | |
| XXX xxx | Elective | 4 | | See advisor for recommendation. |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| MTH 220 | Analytic Geometry and Calculus II | 5 | MTH 210 with a grade of "C" or better and Reading Proficiency | |
| XXX xxx | Elective | 4 | | See advisor for recommendation. |
| XXX xxx | Elective | 4 | | See advisor for recommendation. |
| XXX xxx | Elective | 4 | | See advisor for recommendation. |
| | **Credit Hours** | **17** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| MTH 230 | Analytic Geometry and Calculus III | 5 | MTH 220 with a grade of "C" or better and Reading Proficiency | |
| XXX xxx | MOTR Natural Science with Lab (p. 416) | 4 | | Science must be from two different disciplines. One course must be a lab. |

| | | | | |
|---|---|---|---|---|
| XXX xxx | Elective | 3 | | See advisor for recommendation. |
| XXX xxx | Elective | 3 | | See advisor for recommendation. |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| XXX xxx | MOTR Natural Science (p. 416) | 3 | | Science must be from two different disciplines. One course must be a lab. |
| MTH 240 | Differential Equations | 3 | MTH 230 with a grade of "C" or better and Reading Proficiency | |
| MTH 215 | Linear Algebra | 3 | MTH 210 with a grade of "C" or better and Reading Proficiency | |
| XXX xxx | Elective | 4 | | See advisor for recommendation. |
| | **Credit Hours** | **13** | | |
| | **Total Credit Hours** | **60** | | |

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

This academic plan is a recommended sequence for this pathway. It serves as **a general guideline** to help you build a course schedule each term that supports your timely completion. The College has made every effort to ensure its accuracy**.** However, **the map is not a substitute for academic advisement—contact your advisor if you have any questions about your degree requirements.**

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

# Focus Area: Mathematics Academic Plan (UMSL track)

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | This fulfills the written communications requirement. |
| MTH 210 | Analytic Geometry and Calculus I | 5 | MTH 185 or (MTH 160 or MTH 160S and MTH 170) with grades of "C" or better or satisfactory score on placement test and Reading Proficiency | This fulfills the mathematics requirement. |
| Choose one of the following: | | 3 | | This fulfills part of the elective requirement. |
| COM 101 | Oral Communication I (MOTR COMM 100) | | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | |
| COM 103 | Small Group Communication (MOTR COMM 125) | | Reading Proficiency | |
| COM 107 | Public Speaking (MOTR COMM 110) | | Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| COM 112 | Argumentation and Debate (MOTR COMM 220) | | Reading Proficiency | |
| COM 201 | Interpersonal Communication (MOTR COMM 120) | | Reading Proficiency | |
| Choose one of the following: | | 3 | | This fulfills part of the elective requirement. |
| PHL 103 | World Religions (MOTR RELG 100) | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| ENG 231 | World Literature (MOTR LITR 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **14** | | |
| **Spring** | | | | |
| ENG 102 | College Composition II (MOTR ENGL 200) | 3 | ENG 101 with a minimum grade of "C" and Reading Proficiency | This fulfills part of the elective requirement. |
| ECO 151 | Principles of Macroeconomics (MOTR ECON 101) | 3 | Concurrent enrollment in MTH 140S, or placement into MTH 140, MTH 160 or MTH 185, and Reading Proficiency | This fulfills part of the elective requirement. |
| MTH 220 | Analytic Geometry and Calculus II | 5 | MTH 210 with a grade of "C" or better and Reading Proficiency | This fulfills part of the elective requirement. |
| MCE 100 | Missouri Civics Examination | 0 | | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | This fulfills the civics requirement. |
| | **Credit Hours** | **14** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| MTH 230 | Analytic Geometry and Calculus III | 5 | MTH 220 with a grade of "C" or better and Reading Proficiency | This fulfills part of the elective requirement. |
| IS 167 | C++ Programming I | 4 | Reading Proficiency | This fulfills part of the elective requirement. |
| XXX xxx | MOTR Natural Science with Lab (p. 416) | 4 | | Science must be from two different disciplines. One course must be a lab. |
| Choose one of the following: | | 4 | | This fulfills part of the elective requirement. |
| SPA 101 | Elementary Spanish I (MOTR LANG 103) [1] | | Reading Proficiency | |
| FRE 101 | Elementary French I (MOTR LANG 101) [1] | | Reading Proficiency | |
| GER 101 | Elementary German I (MOTR LANG 105) [1] | | Reading Proficiency | |
| | **Credit Hours** | **17** | | |
| **Spring** | | | | |
| XXX xxx | MOTR Natural Science Elective (p. 416) | 3 | | Science must be from different disciplines. One course must be a lab. |
| MTH 240 | Differential Equations | 3 | MTH 230 with a grade of "C" or better and Reading Proficiency | This fulfills part of the elective requirement. |
| MTH 215 | Linear Algebra | 3 | MTH 210 with a grade of "C" or better and Reading Proficiency | This fulfills part of the elective requirement. |
| Choose one of the following: | | 4 | | This fulfills part of the elective requirement. |

| | | | | |
|---|---|---|---|---|
| SPA 102 | Elementary Spanish II (MOTR LANG 104) [1] | | SPA 101 with a minimum grade of "C" or 2 years of high school Spanish and Reading Proficiency | |
| FRE 102 | Elementary French II (MOTR LANG 102) [1] | | FRE 101 with a minimum grade of "C" or 2 years of high school French and Reading Proficiency | |
| GER 102 | Elementary German II (MOTR LANG 106) [1] | | GER 101 with a minimum grade of "C" or 2 or more years of high school German, and Reading Proficiency | |
| XXX xxx | MOTR Social and Behavioral Sciences Elective (p. 416) | 3 | | This fulfills part of the elective requirement. PSY, SOC, or other Social and Behavioral Sciences MOTR courses. |
| | **Credit Hours** | **16** | | |
| | **Total Credit Hours** | **61** | | |

[1] Foreign Language courses are not required for the Bachelor in Science in Mathematics degree at University of Missouri - St. Louis (UMSL). If a student is interested in completing the Bachelor of Science in Mathematics, they can choose other options from the approved CORE 42 humanities list to fulfill their humanities requirement.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Graphic Communications: AAS

**Associate in Applied Science | 60 credit hours minimum**

**School of Communication, Design, and Creative Arts**

**Program Website (https://stlcc.edu/programs-academics/pathways/a-d-h-c/graphic-communications/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

The Associate in Applied Science degree in Graphic Communications engages students in a dynamic, workplace-oriented, and contemporary design education that stresses innovation and career preparedness. The curriculum emphasizes a strong foundation in traditional visual arts, use of current design technology, the development of research-based creative solutions, and a human-centered design approach. Students learn creative problem-solving methods and complete complex projects that satisfy the needs of theoretical and real-world client-based challenges.

Graduates of the Graphic Communications program will develop the creative and conceptual capabilities necessary for entry-level employment in a variety of design and communications industries. Careers and professional expertise areas in the vast and evolving field include: graphic design, illustration, web design, motion design and animation, interactive design, package and product design, production artist, and digital media specialist.

The Florissant Valley and Meramec campuses offer complete programs; select courses are offered at the Forest Park and Wildwood campuses.

**Locations.** This program is offered in its entirety at Florissant Valley and Meramec; select courses are offered at Forest Park and Wildwood.

**Related Programs.** The Art Department offers an associate in the following area:

- **Graphic Communications, Associate in Fine Arts (p. 251)**

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program “St. Louis Community College” and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. demonstrate excellence in traditional drawing and digital rendering.
2. apply design principles of scale, proportion, rhythm, contrast, emphasis, and unity.
3. demonstrate knowledge of design industry history, standards, tools, and trends.
4. apply conceptual thinking to generate creative solutions that solve design problems.
5. demonstrate proficient use of art and design industry-standard software.
6. defend design concepts in the critique process using professional presentation methods.
7. prepare finalized designs composed in a comprehensive portfolio for print and electronic publication.

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

| Code | Title | Credit Hours |
|---|---|---|
| **General Education** | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 |
| ENG 102 | College Composition II (MOTR ENGL 200) | 3 |
| or COM 101 | Oral Communication I (MOTR COMM 100) | |
| or COM 107 | Public Speaking (MOTR COMM 110) | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 |
| XXX xxx | Natural Science with MOTR designation / Mathematics Requirement (MTH 161 preferred or above 100) | 6 |
| **Program Requirements** | | |
| ART 109 | Drawing I (MOTR PERF 105D) | 3 |
| ART 140 | Two-Dimensional Design | 3 |
| ART 111 | Figure Drawing I | 3 |
| ART 131 | Computer Art Studio | 3 |
| ART 133 | Graphic Design I | 3 |
| ART 134 | Graphic Design II | 3 |
| AT 207 | Motion Media Design | 3 |
| ART 236 | Typography | 3 |
| AT 242 | History of Graphic Communications | 3 |
| ART 245 | Portfolio Design and Workplace Preparation | 3 |
| **Tracks** | | |
| Select one track from the following: | | 15 |
| Graphic and Interactive Design | | |
| Illustration and Animation Design | | |
| **Total Credit Hours** | | **60** |

# Tracks

## Graphic and Interactive Design Track

| Code | Title | Credit Hours |
|---|---|---|
| AT 235 | Advanced Motion and Interactive Design | 3 |
| or AT 246 | Advanced Computer Art Applications | |
| ART 233 | Graphic Design III | 3 |
| ART 234 | Graphic Design IV | 3 |
| AT 135 | Web Design I | 3 |

| | | |
|---|---|---|
| AT 143 | Web Design II | 3 |
| **Total Credit Hours** | | **15** |

## Illustration and Animation Design Track

| Code | Title | Credit Hours |
|---|---|---|
| ART 138 | Drawing and Rendering for Graphics | 3 |
| ART 239 | Editorial and Commercial Illustration | 3 |
| AT 233 | Concept Development for Animation | 3 |
| AT 234 | Fundamentals of Animation | 3 |
| AT 235 | Advanced Motion and Interactive Design | 3 |
| or ART 240 | Digital Illustration | |
| **Total Credit Hours** | | **15** |

# Graphic and Interactive Design Track Full-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| ART 140 | Two-Dimensional Design | 3 | Reading Proficiency | |
| ART 131 | Computer Art Studio | 3 | Reading Proficiency | Exploratory Course, Gateway Course |
| ART 133 | Graphic Design I | 3 | Reading Proficiency | Exploratory Course, Gateway Course, Critical Course |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| | **Credit Hours** | **12** | | |
| **Spring** | | | | |
| ART 109 | Drawing I (MOTR PERF 105D) | 3 | Reading Proficiency | |
| ART 134 | Graphic Design II | 3 | ART 140, ART 131, and ART 133 with minimum grades of "C" and Reading Proficiency | |
| ART 111 | Figure Drawing I | 3 | Reading Proficiency | |
| XXX xxx | Social and Behavioral Science: Civics Requirement (p. 416) | 3 | | |
| XXX xxx | MOTR Science/ Math Requirement | 3 | | MTH 161 preferred or any math above 100-level. |
| | **Credit Hours** | **15** | | |
| **Summer** | | | | |
| ART 236 | Typography | 3 | ART 131 and ART 133 with minimum grades of "C" and Reading Proficiency | Critical Course |

| | | | | |
|---|---|---|---|---|
| AT 135 | Web Design I | 3 | ART 131 and ART 133 with minimum grades of "C" and Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| ART 233 | Graphic Design III | 3 | ART 134 with a minimum grade of "C" and Reading Proficiency | |
| AT 143 | Web Design II | 3 | AT 135 with a minimum grade of "C" and Reading Proficiency | |
| AT 207 | Motion Media Design | 3 | ART 131 and ART 133 with a minimum grade of "C" and Reading Proficiency | |
| AT 242 | History of Graphic Communications | 3 | Reading Proficiency | |
| Choose one of the following: | | 3 | | |
| ENG 102 | College Composition II (MOTR ENGL 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| COM 101 | Oral Communication I (MOTR COMM 100) | | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | |
| COM 107 | Public Speaking (MOTR COMM 110) | | Reading Proficiency | |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| ART 234 | Graphic Design IV | 3 | ART 233 and ART 236 with minimum grades of "C" and Reading Proficiency | |
| Choose one of the following: | | 3 | | |
| AT 235 | Advanced Motion and Interactive Design | | ART 233 or AT 233 with minimum grade of “C” and Reading Proficiency | |
| AT 246 | Advanced Computer Art Applications | | ART 131 and ART 133 with minimum grades of "C" and Reading Proficiency | |
| ART 245 | Portfolio Design and Workplace Preparation | 3 | ART 236 and ART 134 with a minimum grade of "C" and Reading Proficiency | |
| XXX xxx | MOTR Science/ Math Requirement | 3 | | MTH 161 preferred or any math above 100-level. |
| | **Credit Hours** | **12** | | |
| | **Total Credit Hours** | **60** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Graphic and Interactive Design Track Part-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| ART 140 | Two-Dimensional Design | 3 | Reading Proficiency | |
| ART 133 | Graphic Design I | 3 | Reading Proficiency | Exploratory Course, Gateway Course, Critical Course |
| | **Credit Hours** | **6** | | |
| **Spring** | | | | |
| ART 131 | Computer Art Studio | 3 | Reading Proficiency | Exploratory Course, Gateway Course |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| | **Credit Hours** | **6** | | |
| **Summer** | | | | |
| ART 109 | Drawing I (MOTR PERF 105D) | 3 | Reading Proficiency | |
| | **Credit Hours** | **3** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| ART 111 | Figure Drawing I | 3 | Reading Proficiency | |
| ART 134 | Graphic Design II | 3 | ART 140, ART 131, and ART 133 with minimum grades of "C" and Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| **Spring** | | | | |
| ART 236 | Typography | 3 | ART 131 and ART 133 with minimum grades of "C" and Reading Proficiency | Critical Course |
| AT 135 | Web Design I | 3 | ART 131 and ART 133 with minimum grades of "C" and Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| **Summer** | | | | |
| XXX xxx | Social & Behavioral Sciences: Civics (p. 416) | 3 | | |
| | **Credit Hours** | **3** | | |
| **Third Year** | | | | |
| **Fall** | | | | |
| AT 242 | History of Graphic Communications | 3 | Reading Proficiency | |
| ART 233 | Graphic Design III | 3 | ART 134 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **6** | | |

| | | | | |
|---|---|---|---|---|
| **Spring** | | | | |
| AT 143 | Web Design II | 3 | AT 135 with a minimum grade of "C" and Reading Proficiency | |
| XXX xxx | MOTR Science/Mathematics Requirement | 3 | | MTH 161 preferred or any math above 100-level. |
| | **Credit Hours** | **6** | | |
| **Summer** | | | | |
| Choose one of the following: | | 3 | | |
| ENG 102 | College Composition II (MOTR ENGL 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| COM 101 | Oral Communication I (MOTR COMM 100) | | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | |
| COM 107 | Public Speaking (MOTR COMM 110) | | Reading Proficiency | |
| | **Credit Hours** | **3** | | |
| **Fourth Year** | | | | |
| **Fall** | | | | |
| AT 207 | Motion Media Design | 3 | ART 131 and ART 133 with a minimum grade of "C" and Reading Proficiency | |
| ART 234 | Graphic Design IV | 3 | ART 233 and ART 236 with minimum grades of "C" and Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| **Spring** | | | | |
| Choose one of the following: | | 3 | | |
| AT 235 | Advanced Motion and Interactive Design | | ART 233 or AT 233 with minimum grade of “C” and Reading Proficiency | |
| AT 246 | Advanced Computer Art Applications | | ART 131 and ART 133 with minimum grades of "C" and Reading Proficiency | |
| ART 245 | Portfolio Design and Workplace Preparation | 3 | ART 236 and ART 134 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| **Summer** | | | | |
| XXX xxx | MOTR Science/Mathematics Requirement | 3 | | MTH 161 preferred or any math above 100-level. |
| | **Credit Hours** | **3** | | |
| | **Total Credit Hours** | **60** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Illustration and Animation Design Track Full-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| ART 140 | Two-Dimensional Design | 3 | Reading Proficiency | |
| ART 131 | Computer Art Studio | 3 | Reading Proficiency | Exploratory Course, Gateway Course |
| ART 133 | Graphic Design I | 3 | Reading Proficiency | Exploratory Course, Gateway Course, Critical Course |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| | **Credit Hours** | **12** | | |
| **Spring** | | | | |
| ART 109 | Drawing I (MOTR PERF 105D) | 3 | Reading Proficiency | |
| ART 134 | Graphic Design II | 3 | ART 140, ART 131, and ART 133 with minimum grades of "C" and Reading Proficiency | |
| ART 111 | Figure Drawing I | 3 | Reading Proficiency | |
| XXX xxx | Social and Behavioral Science: Civics Requirement (p. 416) | 3 | | |
| Choose one of the following: | | 3 | | |
| ENG 102 | College Composition II (MOTR ENGL 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| COM 107 | Public Speaking (MOTR COMM 110) | | Reading Proficiency | |
| COM 101 | Oral Communication I (MOTR COMM 100) | | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | |
| | **Credit Hours** | **15** | | |
| **Summer** | | | | |
| ART 236 | Typography | 3 | ART 131 and ART 133 with minimum grades of "C" and Reading Proficiency | Critical Course |
| ART 138 | Drawing and Rendering for Graphics | 3 | ART 140 and ART 109 with minimum grades of "C" and Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| ART 239 | Editorial and Commercial Illustration | 3 | ART 131 with a minimum grade of "C" and concurrent or prior enrollment in ART 138 and ART 111 with minimum grades of "C", and Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| AT 233 | Concept Development for Animation | 3 | ART 111 and ART 131 with minimum grades of "C" and Reading Proficiency | |
| AT 207 | Motion Media Design | 3 | ART 131 and ART 133 with a minimum grade of "C" and Reading Proficiency | |
| AT 234 | Fundamentals of Animation | 3 | ART 111 and ART 133 with minimum grades of "C" and Reading Proficiency | |
| XXX xxx | MOTR Science/ Math Requirement | 3 | | MTH 161 preferred or any math above 100-level. |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| AT 242 | History of Graphic Communications | 3 | Reading Proficiency | |
| Choose one of the following: | | 3 | | |
| AT 235 | Advanced Motion and Interactive Design | | ART 233 or AT 233 with minimum grade of “C” and Reading Proficiency | |
| ART 240 | Digital Illustration | | ART 239 with a minimum grade of "C" and Reading Proficiency | |
| ART 245 | Portfolio Design and Workplace Preparation | 3 | ART 236 and ART 134 with a minimum grade of "C" and Reading Proficiency | |
| XXX xxx | MOTR Science/ Math Requirement | 3 | | MTH 161 preferred or any math above 100-level. |
| | **Credit Hours** | **12** | | |
| | **Total Credit Hours** | **60** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Illustration and Animation Design Track Part-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate’s degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| ART 140 | Two-Dimensional Design | 3 | Reading Proficiency | |
| ART 133 | Graphic Design I | 3 | Reading Proficiency | Exploratory Course, Gateway Course, Critical Course |
| | **Credit Hours** | **6** | | |

| | | | | |
|---|---|---|---|---|
| **Spring** | | | | |
| ART 131 | Computer Art Studio | 3 | Reading Proficiency | Exploratory Course, Gateway Course |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| | **Credit Hours** | **6** | | |
| **Summer** | | | | |
| ART 109 | Drawing I (MOTR PERF 105D) | 3 | Reading Proficiency | |
| | **Credit Hours** | **3** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| ART 111 | Figure Drawing I | 3 | Reading Proficiency | |
| ART 134 | Graphic Design II | 3 | ART 140, ART 131, and ART 133 with minimum grades of "C" and Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| **Spring** | | | | |
| ART 236 | Typography | 3 | ART 131 and ART 133 with minimum grades of "C" and Reading Proficiency | Critical Course |
| ART 138 | Drawing and Rendering for Graphics | 3 | ART 140 and ART 109 with minimum grades of "C" and Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| **Summer** | | | | |
| XXX xxx | Social & Behavioral Sciences: Civics (p. 416) | 3 | | |
| | **Credit Hours** | **3** | | |
| **Third Year** | | | | |
| **Fall** | | | | |
| AT 242 | History of Graphic Communications | 3 | Reading Proficiency | |
| AT 233 | Concept Development for Animation | 3 | ART 111 and ART 131 with minimum grades of "C" and Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| **Spring** | | | | |
| ART 239 | Editorial and Commercial Illustration | 3 | ART 131 with a minimum grade of "C" and concurrent or prior enrollment in ART 138 and ART 111 with minimum grades of "C", and Reading Proficiency | |
| XXX xxx | MOTR Science/Mathematics Requirement | 3 | | MTH 161 preferred or any math above 100-level. |
| | **Credit Hours** | **6** | | |
| **Summer** | | | | |
| Choose one of the following: | | 3 | | |
| ENG 102 | College Composition II (MOTR ENGL 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| COM 101 | Oral Communication I (MOTR COMM 100) | | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| COM 107 | Public Speaking (MOTR COMM 110) | | Reading Proficiency | |
| | **Credit Hours** | **3** | | |
| **Fourth Year** | | | | |
| **Fall** | | | | |
| AT 207 | Motion Media Design | 3 | ART 131 and ART 133 with a minimum grade of "C" and Reading Proficiency | |
| AT 234 | Fundamentals of Animation | 3 | ART 111 and ART 133 with minimum grades of "C" and Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| **Spring** | | | | |
| Choose one of the following: | | 3 | | |
| AT 235 | Advanced Motion and Interactive Design | | ART 233 or AT 233 with minimum grade of “C” and Reading Proficiency | |
| ART 240 | Digital Illustration | | ART 239 with a minimum grade of "C" and Reading Proficiency | |
| ART 245 | Portfolio Design and Workplace Preparation | 3 | ART 236 and ART 134 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| **Summer** | | | | |
| XXX xxx | MOTR Science/Mathematics Requirement | 3 | | MTH 161 preferred or any math above 100-level. |
| | **Credit Hours** | **3** | | |
| | **Total Credit Hours** | **60** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Articulation Agreements

Articulation agreements are formal partnerships between St. Louis Community College and colleges or universities that outline how completed coursework transfers toward a specific degree program. These agreements help students continue their education by ensuring the credits earned at STLCC apply toward bachelor’s degree requirements at the partner institution. STLCC continually collaborates with colleges and universities to establish new agreements that support a smooth transfer process.

Below is a list of current partner institutions with active articulation agreements for the Associate in Applied Science - Graphic Communications. Some programs include links to academic plans. If a program does not have a linked plan available, students should meet with an academic advisor to obtain the appropriate plan and guidance.

## Webster University

- Animation (https://catalog.stlcc.edu/programs/signed-articulation-agreements/webster-animation/), (https://catalog.stlcc.edu/programs/signed-articulation-agreements/webster-animation/) Bachelor of Arts (https://catalog.stlcc.edu/programs/signed-articulation-agreements/webster-animation/)
- Graphic Design, Bachelor of Fine Arts (https://catalog.stlcc.edu/programs/signed-articulation-agreements/webster-graphic-design/)

# Graphic Communications: AFA

**Associate in Fine Arts | 60 credit hours minimum**

**School of Communication, Design, and Creative Arts**

**Program Website (https://stlcc.edu/programs-academics/pathways/a-d-h-c/graphic-communications/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

## Program Description:

The Associate of Fine Arts degree in Graphic Communications challenges students to excel in a studio-based, highly creative, and NASAD accredited design education that combines traditional methods of expressiveness with training in contemporary industry-standard technology and equipment.

This program is primarily for students planning to transfer to an accredited four-year art and design university or institute to earn a Bachelor of Fine Arts or related degree in design. Graduates will develop advanced skills and knowledge in visual communications, drawing, illustration, digital photography, typography, design software, and design history.

Florissant Valley and Meramec campuses offer complete programs; select courses are offered at the Forest Park and Wildwood campuses.

**Locations.** This program is offered in its entirety at Florissant Valley and Meramec; select courses are offered at Forest Park and Wildwood.

**Related Programs.** The Art Department offers an associate in the following area:

- **Graphic Communications, Associate in Applied Science (p. 241)**

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

## At the completion of the program, students are expected to:

1. demonstrate excellence in traditional drawing and illustration.
2. apply design principles of scale, proportion, rhythm, contrast, emphasis, and unity.
3. demonstrate knowledge of art and design industry history, standards, tools, and trends.
4. defend design concepts during the critique process using professional presentation methods.
5. demonstrate proficient use of art and design industry-standard software.
6. apply conceptual thinking to generate creative solutions for design problems.
7. prepare a comprehensive, cohesive portfolio of well-executed art and design projects.

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **General Education** | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 |
| ENG 102 | College Composition II (MOTR ENGL 200) | 3 |
| or COM 101 | Oral Communication I (MOTR COMM 100) | |
| or COM 107 | Public Speaking (MOTR COMM 110) | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 |
| XXX xxx | Natural Science with MOTR designation/Mathematics Requirement (MTH 161 preferred or above 100) (p. 416) [1] | 6 |

| | | |
|---|---|---|
| **Program Requirements** | | |
| ART 140 | Two-Dimensional Design | 3 |
| ART 109 | Drawing I (MOTR PERF 105D) | 3 |
| ART 111 | Figure Drawing I | 3 |
| ART 110 | Drawing II | 3 |
| or ART 112 | Figure Drawing II | |
| ART 131 | Computer Art Studio | 3 |
| ART 133 | Graphic Design I | 3 |
| ART 134 | Graphic Design II | 3 |
| ART 138 | Drawing and Rendering for Graphics | 3 |
| ART 239 | Editorial and Commercial Illustration | 3 |
| ART 240 | Digital Illustration | 3 |
| or ART 172 | Digital Photography (MOTR PERF 105GA) | |
| ART 233 | Graphic Design III | 3 |
| ART 234 | Graphic Design IV | 3 |
| ART 236 | Typography | 3 |
| AT 242 | History of Graphic Communications | 3 |
| ART 245 | Portfolio Design and Workplace Preparation | 3 |
| **Total Credit Hours** | | **60** |

[1] It is recommended that students intending to transfer to an undergraduate art program requiring math should verify transfer institution requirements. Consultation with advisors at the transfer institution is strongly advised.

# Full-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| ART 140 | Two-Dimensional Design | 3 | Reading Proficiency | |
| ART 131 | Computer Art Studio | 3 | Reading Proficiency | Exploratory Course, Gateway Course |
| ART 133 | Graphic Design I | 3 | Reading Proficiency | Exploratory Course, Gateway Course, Critical Course |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| | **Credit Hours** | **12** | | |
| **Spring** | | | | |
| ART 109 | Drawing I (MOTR PERF 105D) | 3 | Reading Proficiency | |
| ART 134 | Graphic Design II | 3 | ART 140, ART 131, and ART 133 with minimum grades of "C" and Reading Proficiency | |
| ART 111 | Figure Drawing I | 3 | Reading Proficiency | |
| XXX xxx | Social and Behavioral Science: Civics Requirement (p. 416) | 3 | | |

| | | | | |
|---|---|---|---|---|
| XXX xxx | MOTR Science/ Math Requirement | 3 | | MTH 161 or MTH 161S preferred or any math above 100-level. |
| | **Credit Hours** | **15** | | |
| **Summer** | | | | |
| ART 236 | Typography | 3 | ART 131 and ART 133 with minimum grades of "C" and Reading Proficiency | Critical Course |
| Choose one of the following: | | 3 | | |
| ART 110 | Drawing II | | ART 109 with a minimum grade of "C" and Reading Proficiency | |
| ART 112 | Figure Drawing II | | ART 111 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| ART 239 | Editorial and Commercial Illustration | 3 | ART 131 with a minimum grade of "C" and concurrent or prior enrollment in ART 138 and ART 111 with minimum grades of "C", and Reading Proficiency | |
| ART 233 | Graphic Design III | 3 | ART 134 with a minimum grade of "C" and Reading Proficiency | |
| AT 242 | History of Graphic Communications | 3 | Reading Proficiency | |
| ART 138 | Drawing and Rendering for Graphics | 3 | ART 140 and ART 109 with minimum grades of "C" and Reading Proficiency | |
| Choose one of the following: | | 3 | | |
| ENG 102 | College Composition II (MOTR ENGL 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| COM 101 | Oral Communication I (MOTR COMM 100) | | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | |
| COM 107 | Public Speaking (MOTR COMM 110) | | Reading Proficiency | |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| ART 234 | Graphic Design IV | 3 | ART 233 and ART 236 with minimum grades of "C" and Reading Proficiency | |
| Choose one of the following: | | 3 | | |
| ART 240 | Digital Illustration | | ART 239 with a minimum grade of "C" and Reading Proficiency | |
| ART 172 | Digital Photography (MOTR PERF 105GA) | | Reading Proficiency | |
| ART 245 | Portfolio Design and Workplace Preparation | 3 | ART 236 and ART 134 with a minimum grade of "C" and Reading Proficiency | |
| XXX xxx | MOTR Science/ Math Requirement | 3 | | MTH 161 or MTH 161S preferred or any math above 100-level. |
| | **Credit Hours** | **12** | | |
| | **Total Credit Hours** | **60** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Part-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| ART 140 | Two-Dimensional Design | 3 | Reading Proficiency | |
| ART 133 | Graphic Design I | 3 | Reading Proficiency | Exploratory Course, Gateway Course, Critical Course |
| | **Credit Hours** | **6** | | |
| **Spring** | | | | |
| ART 131 | Computer Art Studio | 3 | Reading Proficiency | Exploratory Course, Gateway Course |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| | **Credit Hours** | **6** | | |
| **Summer** | | | | |
| ART 109 | Drawing I (MOTR PERF 105D) | 3 | Reading Proficiency | |
| | **Credit Hours** | **3** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| ART 111 | Figure Drawing I | 3 | Reading Proficiency | |
| ART 134 | Graphic Design II | 3 | ART 140, ART 131, and ART 133 with minimum grades of "C" and Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| **Spring** | | | | |
| ART 236 | Typography | 3 | ART 131 and ART 133 with minimum grades of "C" and Reading Proficiency | Critical Course |
| Choose one of the following: | | 3 | | |
| ART 110 | Drawing II | | ART 109 with a minimum grade of "C" and Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| ART 112 | Figure Drawing II | | ART 111 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| **Summer** | | | | |
| XXX xxx | Social & Behavioral Sciences: Civics (p. 416) | 3 | | |
| | **Credit Hours** | **3** | | |
| **Third Year** | | | | |
| **Fall** | | | | |
| AT 242 | History of Graphic Communications | 3 | Reading Proficiency | |
| ART 138 | Drawing and Rendering for Graphics | 3 | ART 140 and ART 109 with minimum grades of "C" and Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| **Spring** | | | | |
| ART 239 | Editorial and Commercial Illustration | 3 | ART 131 with a minimum grade of "C" and concurrent or prior enrollment in ART 138 and ART 111 with minimum grades of "C", and Reading Proficiency | |
| XXX xxx | MOTR Science/Mathematics Requirement | 3 | | MTH 161 or MTH 161S preferred or above 100-level. |
| | **Credit Hours** | **6** | | |
| **Summer** | | | | |
| Choose one of the following: | | 3 | | |
| ENG 102 | College Composition II (MOTR ENGL 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| COM 101 | Oral Communication I (MOTR COMM 100) | | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | |
| COM 107 | Public Speaking (MOTR COMM 110) | | Reading Proficiency | |
| | **Credit Hours** | **3** | | |
| **Fourth Year** | | | | |
| **Fall** | | | | |
| ART 233 | Graphic Design III | 3 | ART 134 with a minimum grade of "C" and Reading Proficiency | |
| Choose one of the following: | | 3 | | |
| ART 240 | Digital Illustration | | ART 239 with a minimum grade of "C" and Reading Proficiency | |
| ART 172 | Digital Photography (MOTR PERF 105GA) | | Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| **Spring** | | | | |
| ART 234 | Graphic Design IV | 3 | ART 233 and ART 236 with minimum grades of "C" and Reading Proficiency | |
| ART 245 | Portfolio Design and Workplace Preparation | 3 | ART 236 and ART 134 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **6** | | |

| | | | | |
|---|---|---|---|---|
| **Summer** | | | | |
| XXX xxx | MOTR Science/Mathematics Requirement | 3 | | MTH 161 or MTH 161S preferred or any math above 100-level. |
| | **Credit Hours** | **3** | | |
| | **Total Credit Hours** | **60** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Articulation Agreements

Articulation agreements are formal partnerships between St. Louis Community College and colleges or universities that outline how completed coursework transfers toward a specific degree program. These agreements help students continue their education by ensuring the credits earned at STLCC apply toward bachelor's degree requirements at the partner institution. STLCC continually collaborates with colleges and universities to establish new agreements that support a smooth transfer process.

Below is a list of current partner institutions with active articulation agreements for the Associate in Fine Arts - Graphic Communications. Some programs include links to academic plans. If a program does not have a linked plan available, students should meet with an academic advisor to obtain the appropriate plan and guidance.

## Kansas City Art Institute

- Graphic Design, Bachelor of Fine Arts

# Health Information Management: AAS

**Associate in Applied Science | 60 credit hours minimum**

**School of Health Professions**

**Program Website (https://stlcc.edu/programs-academics/pathways/health-professions/health-information-management/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

Health Information Management (HIM), Associate in Applied Science, program provides students with the technical skills and knowledge required to provide reliable and valid information essential to the health care industry. Health Information Management professionals may practice in health care, health information systems industry, health information management education programs, health finance and billing services, and in health information standards and policy development. Practices connect clinical, operational, and administrative functions in health care. Health Information Management professionals work on classification of diseases and interventions to ensure standardization for use in clinical settings.

This program prepares health information students to support health information management in an electronic environment (e-HIM) and adheres to the American Health Information Management Association's Framework for HIM education. This program offers a Data Management (DM) Track where students learn how to evaluate data sets for compliance with governance standards and a Revenue Management (RM) Track where students learn how to evaluate revenue cycle processes. This program is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM).

**Locations.** This program is offered at Forest Park by taking a mixture of face-to-face and online courses.

**Related Programs.** The Health Information Management Department offers certificates in the following areas:

- **Clinical Coding Associate, Certificate of Specialization (p. 139)**
- **Clinical Coding, Certificate of Proficiency (p. 136)**

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. verify the quality of medical/health records for completeness, accuracy, and proper entry into computer systems.
2. explain legal regulations for the management, control, and disclosure of protected health information.
3. analyze data sets.
4. evaluate revenue cycle management processes.
5. analyze policies and procedures related to health information management to ensure medical, legal, and ethical compliance.
6. implement leadership, management, and decision making skills related to the health information management profession.

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

# Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **General Education** | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 |
| or ENG 102 | College Composition II (MOTR ENGL 200) | |
| COM 101 | Oral Communication I (MOTR COMM 100) | 3 |
| or COM 107 | Public Speaking (MOTR COMM 110) | |
| MTH 180 | Introductory Statistics (MOTR MATH 110) (or MTH 180S or higher) | 3 |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 |
| XXX xxx | CORE 42 Social & Behavioral Sciences Elective (p. 416) | 3 |
| **Foundation Courses** | | |
| BIO 215 | Human Body Systems | 5 |
| HIM 101 | Medical Terminology and Language | 3 |
| HIM 102 | Electronic Health Management | 2 |
| HIM 103 | Human Diseases and Pharmacology | 3 |
| **Area of Concentration** | | |
| HIM 200 | Data Structure, Content, and Governance of Health Information | 5 |
| HIM 202 | Access, Use, Disclosure, Privacy and Security Protection of Health Information | 5 |
| HIM 205 | Health Informatics and its Applications | 5 |
| HIM 204 | Health Law Compliance | 5 |
| HIM 203 | Revenue Cycle Management | 5 |
| HIM 209 | Organizational Management Leadership | 5 |
| HIM 210 | Professional Practice Experience | 2 |
| **Total Credit Hours** | | **60** |

# Full-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| BIO 215 | Human Body Systems | 5 | Reading Proficiency | |
| HIM 102 | Electronic Health Management | 2 | Reading Proficiency | Exploratory Course |
| HIM 101 | Medical Terminology and Language | 3 | Reading Proficiency | |
| HIM 103 | Human Diseases and Pharmacology | 3 | Concurrent or prior enrollment in BIO 215 and HIM 102 with minimum grades of "C", and Reading Proficiency | |
| | **Credit Hours** | **13** | | |
| **Spring** | | | | |
| HIM 200 | Data Structure, Content, and Governance of Health Information | 5 | HIM 101, HIM 102, and HIM 103 with minimum grades of "C"; and Reading Proficiency | |
| HIM 202 | Access, Use, Disclosure, Privacy and Security Protection of Health Information | 5 | HIM 101, HIM 102, and HIM 103 with minimum grades of "C"; and Reading Proficiency | |
| XXX xxx | CORE 42 Social & Behavioral Sciences Elective (p. 416) | 3 | | Consider one of the following courses: COM 200, PSC 201, MCM 101, GEG 101, or PSY 200. |
| | **Credit Hours** | **13** | | |
| **Summer** | | | | |
| HIM 203 | Revenue Cycle Management | 5 | HIM 202 with a minimum grade of "C" and Reading Proficiency | |
| Choose one of the following: | | 3 | | |
| MTH 180 | Introductory Statistics (MOTR MATH 110) | | Satisfactory scores on placement test, and Reading Proficiency | |
| MTH 180S | Introductory Statistics with Support (MOTR MATH 110) (or higher) | | Reading Proficiency | |
| | **Credit Hours** | **8** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| HIM 204 | Health Law Compliance | 5 | HIM 203 with a minimum grade of "C" and Reading Proficiency | |
| HIM 205 | Health Informatics and its Applications | 5 | MTH 180 (or MTH 180S) with minimum grade of "C" and Reading Proficiency | |
| Choose one of the following: | | 3 | | |
| COM 101 | Oral Communication I (MOTR COMM 100) | | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | |
| COM 107 | Public Speaking (MOTR COMM 110) | | Reading Proficiency | |
| | **Credit Hours** | **13** | | |

| | | | | |
|---|---|---|---|---|
| **Spring** | | | | |
| Choose one of the following: | | 3 | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| ENG 102 | College Composition II (MOTR ENGL 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| XXX xxx | Social & Behavioral Science: Civics Requirement (p. 416) | 3 | | |
| HIM 209 | Organizational Management Leadership | 5 | Reading Proficiency | |
| HIM 210 | Professional Practice Experience | 2 | Department approval and Reading Proficiency | Permission of Program Coordinator |
| | **Credit Hours** | **13** | | |
| | **Total Credit Hours** | **60** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Health Sciences: AS

**Associate in Science | 60 credit hours minimum**

**School of Health Professions**

**Program Website (https://stlcc.edu/pathways/health/health-sciences/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

St. Louis Community College's Health Sciences, Associate in Science degree is designed for students who intend to pursue a baccalaureate degree in nursing or health sciences at STLCC or a four-year institution. Additionally, upon completion of this degree, students will have completed the prerequisites and general education requirements for Associate in Applied Science (AAS) nursing and health science programs at STLCC.

**Location.** This program is offered in its entirety at Florissant Valley, Forest Park, Meramec, and Wildwood.

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program “St. Louis Community College” and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. demonstrate critical and analytical thinking about the content in written communication.
2. develop hypothetical explanations for individual human behavior within the large-scale historical and social context.
3. integrate research outside of required texts and/or collected data to support one's purpose, using discipline-appropriate documentation.
4. evaluate the roles of clinical health professionals.
5. communicate using medical terminology and language.

# Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **General Education** | | |
| **Written Communications Requirement** | | **6** |
| ENG 101 | College Composition I (MOTR ENGL 100) | |
| ENG 102 | College Composition II (MOTR ENGL 200) | |
| ENG 103 | Report Writing (MOTR ENGL 110) | |
| **Oral Communications with MOTR Designation Requirement** | | **3** |
| **Mathematics Requirement** | | **6** |
| MTH 160 | Precalculus Algebra (MOTR MATH 130) | |
| or MTH 160S | Precalculus Algebra with Support (MOTR MATH 130) | |
| MTH 180 | Introductory Statistics (MOTR MATH 110) | |
| or MTH 180S | Introductory Statistics with Support (MOTR MATH 110) | |
| **Social and Behavioral Sciences Requirement** | | **9** |
| PSY 200 | General Psychology (MOTR PSYC 100) | |
| or PSY 205 | Human Growth and Development (MOTR PSYC 200) | |
| SOC 101 | Introduction to Sociology (MOTR SOCI 101) | |
| or COM 200 | Communication Between Cultures (MOTR SBSC 101) | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement | |
| **Natural Sciences Requirement** | | **12-13** |
| BIO 111 | Introductory Biology (MOTR BIOL 100L) | |
| or BIO 140 | Principles of Biology I (MOTR BIOL 150L) | |
| or CHM 101 | Fundamentals of Chemistry I (MOTR CHEM 100L) | |
| BIO 207 | Anatomy and Physiology I (MOTR LIFS 150LAP) | |
| BIO 208 | Anatomy and Physiology II | |
| **Health Science Program Requirements** | | **10** |
| HIM 101 | Medical Terminology and Language | |
| HS 101 | Introduction to Health Professions | |
| HS 200 | Health Literacy | |
| HS 210 | Introduction to Evidence-Based Medicine and Research | |
| **Electives** | | **14** |
| May include but not limited to PHY 111, PSI 101, BIO 203, COM 117, PHL 109, or DIT 115. | | |
| **Total Credit Hours** | | **60-61** |

# Full-Time Academic Plan

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| Choose one of the following: | | 3 | | Gateway Course |
| ENG 101 | College Composition I (MOTR ENGL 100) | | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| ENG 102 | College Composition II (MOTR ENGL 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| ENG 103 | Report Writing (MOTR ENGL 110) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| XXX xxx | Oral Communications with MOTR Designation (p. 416) | 3 | | |
| Choose one of the following: | | 3 | | |
| SOC 101 | Introduction to Sociology (MOTR SOCI 101) | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| COM 200 | Communication Between Cultures (MOTR SBSC 101) | | Reading Proficiency | |
| Choose one of the following: | | 3 | | |
| PSY 200 | General Psychology (MOTR PSYC 100) | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| PSY 205 | Human Growth and Development (MOTR PSYC 200) | | PSY 200 with a minimum grade of "C" and Reading Proficiency | |
| HS 101 | Introduction to Health Professions | 1 | Reading Proficiency | Exploratory Course |
| | **Credit Hours** | **13** | | |
| **Spring** | | | | |
| Choose one of the following: | | 3 | | |
| MTH 160 | Precalculus Algebra (MOTR MATH 130) | | MTH 140 (or MTH 140S) with a minimum grade of "C" or satisfactory score on placement test, and Reading Proficiency | |
| MTH 160S | Precalculus Algebra with Support (MOTR MATH 130) | | Satisfactory score on placement test and Reading Proficiency | |
| Choose one of the following: | | 4-5 | | Gateway Course |
| BIO 111 | Introductory Biology (MOTR BIOL 100L) | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| BIO 140 | Principles of Biology I (MOTR BIOL 150L) | | MTH 140 or MTH 140S or MTH 160S with a minimum grade of "C" or placement into MTH 160, and Reading Proficiency | |
| CHM 101 | Fundamentals of Chemistry I (MOTR CHEM 100L) | | MTH 109 or higher with a minimum grade of "C" or placement into a higher math class, and Reading Proficiency or concurrent enrollment in RDG 079 | |
| Choose one of the following: | | 3 | | |

| | | | | |
|---|---|---|---|---|
| ENG 101 | College Composition I (MOTR ENGL 100) | | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| ENG 102 | College Composition II (MOTR ENGL 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| ENG 103 | Report Writing (MOTR ENGL 110) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | |
| | **Credit Hours** | **13-14** | | |
| **Summer** | | | | |
| XXX xxx | Elective | 3 | | Consider PHY 111, PSI 101, BIO 203, COM 117, PHL 109, or DIT 115. |
| XXX xxx | Elective | 3 | | Consider PHY 111, PSI 101, BIO 203, COM 117, PHL 109, or DIT 115. |
| | **Credit Hours** | **6** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| BIO 207 | Anatomy and Physiology I (MOTR LIFS 150LAP) | 4 | BIO 111 or BIO 140 or CHM 101 with a minimum grade of "C", or college-level course equivalent, and Reading Proficiency | Gateway Course |
| Choose one of the following: | | 3 | | |
| MTH 180 | Introductory Statistics (MOTR MATH 110) | | Satisfactory scores on placement test, and Reading Proficiency | |
| MTH 180S | Introductory Statistics with Support (MOTR MATH 110) | | Reading Proficiency | |
| HIM 101 | Medical Terminology and Language | 3 | Reading Proficiency | Gateway Course |
| XXX xxx | Elective | 3 | | Consider PHY 111, PSI 101, BIO 203, COM 117, PHL 109, or DIT 115. |
| | **Credit Hours** | **13** | | |
| **Spring** | | | | |
| HS 210 | Introduction to Evidence-Based Medicine and Research | 3 | ENG 101, ENG 102, or ENG 103 with a minimum grade of "C", HIM 101 with a minimum grade of "C", concurrent or prior enrollment in MTH 180 with a minimum grade of "C", and Reading Proficiency | Critical Course |
| HS 200 | Health Literacy | 3 | Reading Proficiency | Critical Course |
| BIO 208 | Anatomy and Physiology II | 4 | BIO 207 with a minimum grade of "C" and Reading Proficiency | |
| XXX xxx | Elective | 5 | | Consider PHY 111, PSI 101, BIO 203, COM 117, PHL 109, or DIT 115. |
| | **Credit Hours** | **15** | | |
| | **Total Credit Hours** | **60-61** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Part-Time Academic Plan

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| Choose one of the following: | | 3 | | Gateway Course |
| ENG 101 | College Composition I (MOTR ENGL 100) | | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| ENG 102 | College Composition II (MOTR ENGL 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| ENG 103 | Report Writing (MOTR ENGL 110) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| XXX xxx | Oral Communications with MOTR Designation (p. 416) | 3 | | |
| HS 101 | Introduction to Health Professions | 1 | Reading Proficiency | Exploratory Course |
| | **Credit Hours** | **7** | | |
| **Spring** | | | | |
| Choose one of the following: | | 3 | | |
| MTH 160 | Precalculus Algebra (MOTR MATH 130) | | MTH 140 (or MTH 140S) with a minimum grade of "C" or satisfactory score on placement test, and Reading Proficiency | |
| MTH 160S | Precalculus Algebra with Support (MOTR MATH 130) | | Satisfactory score on placement test and Reading Proficiency | |
| Choose one of the following: | | 3 | | |
| PSY 200 | General Psychology (MOTR PSYC 100) | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| PSY 205 | Human Growth and Development (MOTR PSYC 200) | | PSY 200 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **6** | | |

| | | | | |
|---|---|---|---|---|
| **Summer** | | | | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | |
| | **Credit Hours** | **3** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| HIM 101 | Medical Terminology and Language | 3 | Reading Proficiency | Gateway Course |
| Choose one of the following: | | 3 | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| ENG 102 | College Composition II (MOTR ENGL 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| ENG 103 | Report Writing (MOTR ENGL 110) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| **Spring** | | | | |
| Choose one of the following: | | 3 | | |
| SOC 101 | Introduction to Sociology (MOTR SOCI 101) | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| COM 200 | Communication Between Cultures (MOTR SBSC 101) | | Reading Proficiency | |
| Choose one of the following: | | 4-5 | | Gateway Course |
| BIO 111 | Introductory Biology (MOTR BIOL 100L) | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| BIO 140 | Principles of Biology I (MOTR BIOL 150L) | | MTH 140 or MTH 140S or MTH 160S with a minimum grade of "C" or placement into MTH 160, and Reading Proficiency | |
| CHM 101 | Fundamentals of Chemistry I (MOTR CHEM 100L) | | MTH 109 or higher with a minimum grade of "C" or placement into a higher math class, and Reading Proficiency or concurrent enrollment in RDG 079 | |
| | **Credit Hours** | **7-8** | | |
| **Summer** | | | | |
| XXX xxx | Elective | 3 | | Consider PHY 111, PSI 101, BIO 203, COM 117, PHL 109, or DIT 115. |
| | **Credit Hours** | **3** | | |
| **Third Year** | | | | |
| **Fall** | | | | |
| Choose one of the following: | | 3 | | |
| MTH 180 | Introductory Statistics (MOTR MATH 110) | | Satisfactory scores on placement test, and Reading Proficiency | |
| MTH 180S | Introductory Statistics with Support (MOTR MATH 110) | | Reading Proficiency | |
| XXX xxx | Elective | 3 | | Consider PHY 111, PSI 101, BIO 203, COM 117, PHL 109, or DIT 115. |
| | **Credit Hours** | **6** | | |

| | | | | |
|---|---|---|---|---|
| **Spring** | | | | |
| XXX xxx | Elective | 3 | | Consider PHY 111, PSI 101, BIO 203, COM 117, PHL 109, or DIT 115. |
| BIO 207 | Anatomy and Physiology I (MOTR LIFS 150LAP) | 4 | BIO 111 or BIO 140 or CHM 101 with a minimum grade of "C", or college-level course equivalent, and Reading Proficiency | Gateway Course |
| | **Credit Hours** | **7** | | |
| **Summer** | | | | |
| XXX xxx | Elective | 3 | | Consider PHY 111, PSI 101, BIO 203, COM 117, PHL 109, or DIT 115. |
| | **Credit Hours** | **3** | | |
| **Fourth Year** | | | | |
| **Fall** | | | | |
| HS 200 | Health Literacy | 3 | Reading Proficiency | Critical Course |
| BIO 208 | Anatomy and Physiology II | 4 | BIO 207 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **7** | | |
| **Spring** | | | | |
| HS 210 | Introduction to Evidence-Based Medicine and Research | 3 | ENG 101, ENG 102, or ENG 103 with a minimum grade of "C", HIM 101 with a minimum grade of "C", concurrent or prior enrollment in MTH 180 with a minimum grade of "C", and Reading Proficiency | Critical Course |
| XXX xxx | Elective | 2 | | Consider PHY 111, PSI 101, BIO 203, COM 117, PHL 109, or DIT 115. |
| | **Credit Hours** | **5** | | |
| | **Total Credit Hours** | **60-61** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Horticulture: AAS

**Associate in Applied Science | 61 credit hours minimum**

**School of Science, Technology, Engineering, and Math (STEM)**

**Program Website (https://stlcc.edu/programs-academics/pathways/s-t-e-m/horticulture/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

## Program Description:

The Associate in Applied Science in Horticulture centers on both the science and the art of horticulture through a combination of classroom theory, practical laboratory application, and on-the-job training. Courses in soils, integrated pest management, plant identification, plant culture, and cooperative horticulture are integral parts of the program. Students receive their training in the College's greenhouses, outdoor garden classroom, and laboratories. Students should enjoy working with plants and observing their culture and growth process.

Graduates may specialize in plant research, landscape design, landscape management, greenhouse management, horticulture retail sales, and urban forestry. Employment opportunities include national, state, and city parks departments, landscape contracting firms, golf courses, retail sales, plant research or biotech companies, greenhouse growing, and retail garden centers.

**Location.** This program is offered in its entirety at Meramec.

**Related Programs.** The Horticulture Department offers certificates in the following areas:

- **Cannabis and Hemp Production, Certificate of Specialization (p. 121)**
- **Horticulture, Certificate of Proficiency (p. 270)**

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

## At the completion of the program, students are expected to:

1. identify an array of plant material in a landscape, greenhouse, or garden center setting.
2. gather accurate information for soil testing.
3. analyze soil test results for proper plant selection or changes to soil conditions.
4. manage landscape areas and gardens using proper and professional methods of pruning, planting, and fertilizing.
5. develop a landscape maintenance schedule that utilizes correct horticulture methods of management.
6. identify plant pests, insects, diseases, and weeds using sustainable methods.
7. design a residential or commercial landscape.
8. develop a business plan for a small business in the green industry.
9. apply the methods of propagating plant material using the latest technology available as practiced in a laboratory setting.
10. demonstrate the ability to collaborate with community landscape programs, tending gardens, and developing tree care programs.
11. maintain turf grass areas using current methods of seeding, installing, watering, fertilizing, and mowing.
12. operate a greenhouse using current greenhouse management methods.
13. discuss the advantages to the local ecology offered by native plants.
14. grow a variety of plants in a greenhouse or field setting.
15. utilize plants according to their preferred culture and soil requirements.

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

# Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **General Education** | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 |
| or ENG 102 | College Composition II (MOTR ENGL 200) | |
| COM 201 | Interpersonal Communication (MOTR COMM 120) | 3 |
| or COM 101 | Oral Communication I (MOTR COMM 100) | |
| or COM 107 | Public Speaking (MOTR COMM 110) | |
| MTH 108 | Elementary Applied Mathematics (or higher) | 3 |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 |
| CHM 109 | Chemistry and the Environment (MOTR CHEM 100L) | 4-5 |
| or CHM 101 | Fundamentals of Chemistry I (MOTR CHEM 100L) | |
| PHL 112 | Business Ethics (MOTR PHIL 102P) | 3 |
| **Program Requirements** | | |
| Select 6 credit hours of the following: | | 6 |
| ACC 100 | Applied Accounting | |
| or ACC 110 | Financial Accounting | |
| ART 109 | Drawing I (MOTR PERF 105D) | |
| BLW 101 | Business Law | |
| BUS 101 | Small Business Management | |
| or BUS 104 | Introduction to Business Administration | |
| ECO 140 | Introduction to Economics (MOTR ECON 100) | |
| MGT 101 | Introduction to Supervision | |
| MKT 104 | | |
| **Horticulture Core Courses** | | |
| HRT 101 | Introductory Horticulture | 4 |
| or BIO 124 | General Botany I (MOTR BIOL 100LB) | |
| HRT 102 | Soils | 3 |
| HRT 105 | Workplace Learning | 2 |
| HRT 206 | Woody Plants - Trees and Vines | 3 |
| HRT 207 | Woody Plants - Shrubs and Evergreens | 3 |
| HRT 214 | Landscape Management | 3 |
| HRT 227 | Integrated Pest Management | 3 |
| HRT 230 | Herbaceous Perennials and Ornamental Grasses | 3 |
| **Horticulture Electives** | | **12** |
| Select 12 credit hours of the following: | | |
| HRT 103 | Plant Propagation | |
| HRT 104 | Landscape Graphics | |
| HRT 106 | Digital Applications in Landscape Design | |
| HRT 134 | Micropropagation of Plants | |
| HRT 135 | Introduction to Cannabis | |
| HRT 136 | Cannabis and Hemp Cultivation | |
| HRT 137 | Laboratory Methods for Cannabis Extraction | |
| HRT 140 | Topics in Horticulture | |
| HRT 201 | Turfgrass Management | |
| HRT 205 | Nursery and Garden Center Practices | |
| HRT 217 | Landscape Design I | |
| HRT 218 | Landscape Design II | |
| HRT 220 | Landscape Irrigation | |
| HRT 235 | Annuals and Vegetables | |
| HRT 241 | Greenhouse Management | |

| | | |
|---|---|---|
| HRT 242 | Urban Tree Management | |
| HRT 250 | Native Landscaping Practices | |
| **Total Credit Hours** | | **61-62** |

# Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| HRT 101<br>or BIO 124 | Introductory Horticulture<br>or General Botany I (MOTR BIOL 100LB) | 4 | Reading Proficiency or concurrent enrollment in RDG 079 | Exploratory Course, Gateway Course, Critical Course |
| XXX xxx | Program Requirement Elective | 3 | | Choose from ACC 100 OR ACC 110, ART 109, BLW 101, BUS 101 OR BUS 104, ECO 140, MGT 101, and MKT 104. |
| Choose one of the following: | | 4-5 | | CHM 109 is preferred. |
| CHM 109 | Chemistry and the Environment (MOTR CHEM 100L) | | Completion of a 100-level MTH course with a minimum grade of "C" or placement into MTH 140 or higher, and Reading Proficiency | |
| CHM 101 | Fundamentals of Chemistry I (MOTR CHEM 100L) | | MTH 109 or higher with a minimum grade of "C" or placement into a higher math class, and Reading Proficiency or concurrent enrollment in RDG 079 | |
| XXX xxx | HRT Elective | 3 | | Choose from HRT 106, HRT 134, HRT 135, HRT 140, HRT 201, HRT 205, HRT 217, HRT 220, HRT 241, HRT 242, and HRT 250. See footnote below. |
| HRT 206 | Woody Plants - Trees and Vines | 3 | Concurrent or prior enrollment in HRT 101 or BIO 124 with a minimum grade of "C", and Reading Proficiency | Offered in the Fall semester only. |
| | **Credit Hours** | **17-18** | | |
| **Spring** | | | | |
| HRT 102 | Soils | 3 | Concurrent or prior enrollment in HRT 101 or BIO 124 with a minimum grade of "C", and Reading Proficiency | |
| HRT 207 | Woody Plants - Shrubs and Evergreens | 3 | Concurrent or prior enrollment in HRT 101 or BIO 124 with a minimum grade of "C", and Reading Proficiency | Offered in the Spring semester only. |
| XXX xxx | HRT Elective | 3 | | Choose from HRT 103, HRT 104, HRT 106, HRT 136, HRT 137, HRT 140, HRT 241, and HRT 242. See footnote below. |
| MTH 108 | Elementary Applied Mathematics (or higher) | 3 | Reading Proficiency | |
| Choose one of the following: | | 3 | | |

| | | | | |
|---|---|---|---|---|
| COM 101 | Oral Communication I (MOTR COMM 100) | | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | |
| COM 201 | Interpersonal Communication (MOTR COMM 120) | | Reading Proficiency | |
| COM 107 | Public Speaking (MOTR COMM 110) | | Reading Proficiency | |
| | **Credit Hours** | **15** | | |
| **Summer** | | | | |
| HRT 230 | Herbaceous Perennials and Ornamental Grasses | 3 | Concurrent or prior enrollment in HRT 101 or BIO 124 with a minimum grade of "C", and Reading Proficiency | Offered in the summer term only. |
| HRT 214 | Landscape Management | 3 | Concurrent or prior enrollment in HRT 101 or BIO 124 with a minimum grade of "C", and Reading Proficiency | |
| Choose one of the following: | | 3 | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| ENG 102 | College Composition II (MOTR ENGL 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| If a student wishes to take HRT 235, they can take it in the summer semester and adjust their academic plan accordingly. HRT 235 will fulfill 3 hours of the Horticulture Elective requirement. | | | | See footnote below. |
| | **Credit Hours** | **9** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| HRT 227 | Integrated Pest Management | 3 | HRT 101 or BIO 124, HRT 206, HRT 207 with minimum grades of "C", and Reading Proficiency | |
| XXX xxx | HRT Elective | 3 | | Choose from HRT 106, HRT 134, HRT 135, HRT 140, HRT 201, HRT 205, HRT 217, HRT 220, HRT 241, HRT 242, and HRT 250. See footnote below. |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | |
| PHL 112 | Business Ethics (MOTR PHIL 102P) | 3 | Reading Proficiency | |
| | **Credit Hours** | **12** | | |
| **Spring** | | | | |
| HRT 105 | Workplace Learning | 2 | HRT 102, HRT 206, HRT 207, HRT 214, and HRT 230 with minimum grades of "C", approval of Horticulture Department Program Coordinator, and Reading Proficiency | |
| XXX xxx | HRT Elective | 3 | | Choose from HRT 103, HRT 104, HRT 106, HRT 136, HRT 137, HRT 140, HRT 241, and HRT 242. See footnote below. |

| | | | | |
|---|---|---|---|---|
| XXX xxx | Program Requirement Elective | 3 | | Choose from ACC 100 OR ACC 110, ART 109, BLW 101, BUS 101 OR BUS 104, ECO 140, MGT 101, and MKT 104. |
| | **Credit Hours** | **8** | | |
| | **Total Credit Hours** | **61-62** | | |

[1] Horticulture Electives can be taken in any semester, provided the student has met the prerequisites. However, the following Horticulture courses that fulfill the Horticulture Elective requirement are only taught in the fall: HRT 134, HRT 135, HRT 201, HRT 205, HRT 217, HRT 220, and HRT 250. The following courses, that fulfill the Horticulture Elective requirement, are taught in both the fall and spring semester: HRT 106, HRT 140, HRT 241, and HRT 242.

[2] Horticulture Electives can be taken in any semester, provided the student has met the prerequisites. However, the following Horticulture courses that fulfill the Horticulture Elective requirement are only taught in the spring: HRT 103, HRT 104, HRT 136, HRT 137, and HRT 218. The following courses, that fulfill the Horticulture Elective requirement, are taught in both the fall and spring semester: HRT 106, HRT 140, HRT 241, and HRT 242.

[3] Horticulture electives can be taken in any semester, provided the student has met the prerequisites. However, HRT 235, which fulfills the Horticulture elective is only taught in the summer.

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Horticulture: CP

**Certificate of Proficiency | 30 credit hours minimum**

**School of Science, Technology, Engineering, and Math (STEM)**

**Program Website (https://stlcc.edu/programs-academics/pathways/s-t-e-m/horticulture/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

**Location.** This program is offered in its entirety at Meramec.

**Related Programs.** The Horticulture Department offers an associate and a certificate in the following areas:

- **Cannabis and Hemp Production, Certificate of Specialization (p. 121)**
- **Horticulture, Associate in Applied Science (p. 266)**

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program “St. Louis Community College” and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. identify an array of plant material in a landscape, greenhouse, or garden center setting.
2. utilize soil test results for proper plant selection.
3. manage landscape areas and gardens using proper and professional methods of pruning, planting, and fertilizing.
4. develop a landscape maintenance schedule.
5. identify plant pests, insects, diseases, and weeds.
6. identify the botanical components of plants and their contributions to the life cycle of a plant.
7. manage plant pests, insects, diseases, and weeds using sustainable methods.
8. manage turf grass using proper methods of seeding, installing, watering, fertilizing, and mowing.
9. discuss the advantages to the local ecology offered by native plants.
10. grow a variety of plants in a greenhouse or landscape setting.
11. utilize plants according to their preferred culture and soil requirements.

### Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Horticulture Core** | | |
| HRT 101 | Introductory Horticulture | 4 |
| or BIO 124 | General Botany I (MOTR BIOL 100LB) | |
| HRT 102 | Soils | 3 |
| HRT 105 | Workplace Learning | 2 |
| HRT 206 | Woody Plants - Trees and Vines | 3 |
| HRT 207 | Woody Plants - Shrubs and Evergreens | 3 |
| HRT 230 | Herbaceous Perennials and Ornamental Grasses | 3 |
| HRT 214 | Landscape Management | 3 |
| HRT 227 | Integrated Pest Management | 3 |
| **Horticulture Electives** | | **6** |
| Select 6 credit hours of the following: | | |
| HRT 103 | Plant Propagation | |
| HRT 104 | Landscape Graphics | |
| HRT 106 | Digital Applications in Landscape Design | |
| HRT 134 | Micropropagation of Plants | |
| HRT 135 | Introduction to Cannabis | |
| HRT 136 | Cannabis and Hemp Cultivation | |
| HRT 137 | Laboratory Methods for Cannabis Extraction | |
| HRT 140 | Topics in Horticulture | |
| HRT 201 | Turfgrass Management | |
| HRT 205 | Nursery and Garden Center Practices | |
| HRT 217 | Landscape Design I | |
| HRT 218 | Landscape Design II | |
| HRT 220 | Landscape Irrigation | |
| HRT 235 | Annuals and Vegetables | |
| HRT 241 | Greenhouse Management | |
| HRT 242 | Urban Tree Management | |
| HRT 250 | Native Landscaping Practices | |
| **Total Credit Hours** | | **30** |

# Part-Time Academic Plan

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| HRT 101<br>or BIO 124 | Introductory Horticulture<br>or General Botany I (MOTR BIOL 100LB) | 4 | Reading Proficiency or concurrent enrollment in RDG 079 | Exploratory Course, Gateway Course, Critical Course |
| XXX xxx | HRT Elective | 3 | | Choose from HRT 106, HRT 134, HRT 135, HRT 140, HRT 201, HRT 205, HRT 217, HRT 220, HRT 241, HRT 242, and HRT 250. See footnote below. |
| HRT 206 | Woody Plants - Trees and Vines | 3 | Concurrent or prior enrollment in HRT 101 or BIO 124 with a minimum grade of "C", and Reading Proficiency | Offered in the Fall semester only. |
| | **Credit Hours** | **10** | | |
| **Spring** | | | | |
| HRT 102 | Soils | 3 | Concurrent or prior enrollment in HRT 101 or BIO 124 with a minimum grade of "C", and Reading Proficiency | |
| HRT 207 | Woody Plants - Shrubs and Evergreens | 3 | Concurrent or prior enrollment in HRT 101 or BIO 124 with a minimum grade of "C", and Reading Proficiency | Offered in the Spring semester only. |
| XXX xxx | HRT Elective | 3 | | Choose from HRT 103, HRT 104, HRT 106, HRT 136, HRT 137, HRT 140, HRT 218, HRT 241, and HRT 242. See footnote below. |
| | **Credit Hours** | **9** | | |
| **Summer** | | | | |
| HRT 230 | Herbaceous Perennials and Ornamental Grasses | 3 | Concurrent or prior enrollment in HRT 101 or BIO 124 with a minimum grade of "C", and Reading Proficiency | Offered in the summer term only. |
| HRT 214 | Landscape Management | 3 | Concurrent or prior enrollment in HRT 101 or BIO 124 with a minimum grade of "C", and Reading Proficiency | |
| If a student wishes to take HRT 235 to fulfill their Horticulture elective, they should take it in the summer term and adjust their academic plan accordingly. | | | | See footnote below. |
| | **Credit Hours** | **6** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| HRT 227 | Integrated Pest Management | 3 | HRT 101 or BIO 124, HRT 206, HRT 207 with minimum grades of "C", and Reading Proficiency | |
| HRT 105 | Workplace Learning | 2 | HRT 102, HRT 206, HRT 207, HRT 214, and HRT 230 with minimum grades of "C", approval of Horticulture Department Program Coordinator, and Reading Proficiency | |
| | **Credit Hours** | **5** | | |
| | **Total Credit Hours** | **30** | | |

[1] Horticulture Electives can be taken in any semester, provided the student has met the prerequisites. However, the following Horticulture courses that fulfill the Horticulture Elective requirement are only taught in the fall: HRT 134, HRT 135, HRT 201, HRT 205, HRT 217, HRT 220, and HRT 250. The following courses, that fulfill the Horticulture Elective requirement, are taught in both the fall and spring semester: HRT 106, HRT 140, HRT 241, and HRT 242.

[2] Horticulture Electives can be taken in any semester, provided the student has met the prerequisites. However, the following Horticulture courses that fulfill the Horticulture Elective requirement are only taught in the spring: HRT 103, HRT 104, HRT 136, HRT 137, and HRT 218. The following courses, that fulfill the Horticulture Elective requirement, are taught in both the fall and spring semester: HRT 106, HRT 140, HRT 241, and HRT 242.

[3] Horticulture electives can be taken in any semester, provided the student has met the prerequisites. However, HRT 235, which fulfills the Horticulture elective is only taught in the summer.

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Hospitality Management: AAS

**Associate in Applied Science | 62 credit hours minimum**

**School of Advanced Manufacturing, Transportation, and Hospitality Studies**

**Program Website (https://stlcc.edu/programs-academics/pathways/b-m-c-a-h/hospitality-management/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

The Associate in Applied Science degree in Hospitality Management will prepare students for entry-level management trainee positions in the hospitality industry. Coursework will introduce students to the various segments of the hospitality industry and to the business of hospitality. Areas of lodging, food & beverage, transportation, meeting & event planning, and travel and tourism are explored from the perspective of guest service, supervision and leadership, legal aspects, sales and marketing, procurement, and financial accountability. The graduate will be prepared for employment in a variety of operations in the hospitality industry.

**Locations.** This program is offered at Forest Park by taking a mixture of face-to-face and online courses.

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program “St. Louis Community College” and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. identify the various segments and career opportunities of the hospitality industry.
2. define the role of the hospitality professional in contemporary life.
3. project a level of professionalism appropriate to hospitality industry standards.
4. describe the role of marketing, management, human resources, law, procurement, and customer service in the hospitality industry.
5. demonstrate a basic understanding of foodservice kitchen management.

6. communicate effectively in supervisory and leadership positions.
7. apply established guidelines for food safety.
8. interpret numerical data that will influence financial decisions in hospitality operations.
9. apply business solutions to work-related situations in the hospitality industry.
10. demonstrate higher order thinking skills when solving problems in hospitality settings.

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

| Code | Title | Credit Hours |
|---|---|---|
| **General Education** | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 |
| or ENG 102 | College Composition II (MOTR ENGL 200) | |
| MTH 108 | Elementary Applied Mathematics (or higher) | 3 |
| XXX xxx | Natural Science Elective with MOTR designation (p. 416) | 3 |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 |
| XXX xxx | Communications Elective with MOTR designation | 3 |
| XXX xxx | Social and Behavioral Science Elective with MOTR designation (p. 416) | 3 |
| **Program Requirements** | | |
| ACC 100 | Applied Accounting | 3 |
| HTM 100 | Introduction to the Hospitality Industry | 3 |
| CUL 101 | Safety and Sanitation | 1 |
| HTM 115 | Hospitality Customer Service and Guest Relations | 3 |
| HTM 120 | Supervision and Leadership in the Hospitality Industry | 3 |
| HTM 200 | Procurement in the Hospitality Industry | 3 |
| HTM 205 | Legal Aspects of Hospitality | 3 |
| HTM 210 | Hospitality Financial Planning and Cost Control | 3 |
| HTM 215 | Hospitality Sales and Marketing | 3 |
| HTM 225 | Hotel Operations | 3 |
| HTM 230 | Bar and Beverage Management | 3 |
| HTM 240 | Workplace Learning: Hospitality | 4 |
| HTM 245 | Meetings and Event Planning | 3 |
| HTM 275 | Travel and Tourism | 3 |
| HTM 280 | Hospitality Management Capstone | 3-6 |
| or CUL 250 | Culinary Arts Capstone | |
| **Total Credit Hours** | | **62-65** |

# Full-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| MTH 108 | Elementary Applied Mathematics (or higher) | 3 | Reading Proficiency | Critical Course: This course is required for HTM 200 and HTM 210. |

| | | | | |
|---|---|---|---|---|
| HTM 100 | Introduction to the Hospitality Industry | 3 | Reading Proficiency | Exploratory, Gateway, and Critical Course. This course is required for all additional HTM courses. |
| CUL 101 | Safety and Sanitation | 1 | Reading Proficiency | |
| Choose one of the following: | | 3 | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| ENG 102 | College Composition II (MOTR ENGL 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| XXX xxx | Communications Elective with MOTR Designation | 3 | | Consider one of the following courses: COM 101, COM 103, COM 107, COM 112, or COM 201. |
| | **Credit Hours** | **13** | | |
| **Spring** | | | | |
| HTM 115 | Hospitality Customer Service and Guest Relations | 3 | HTM 100 with a minimum grade of "C" and Reading Proficiency | |
| HTM 120 | Supervision and Leadership in the Hospitality Industry | 3 | HTM 100 with a minimum grade of "C" and Reading Proficiency | |
| HTM 200 | Procurement in the Hospitality Industry | 3 | HTM 100 and MTH 108 or higher with minimum grades of "C", and Reading Proficiency | |
| HTM 205 | Legal Aspects of Hospitality | 3 | HTM 100 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **12** | | |
| **Summer** | | | | |
| ACC 100 | Applied Accounting | 3 | Reading Proficiency or concurrent enrollment in RDG 079 | |
| XXX xxx | Social and Behavioral Science Elective with MOTR designation (p. 416) | 3 | | Consider one of the following courses: COM 200, ECO 140, MCM 101, PSY 200, or SOC 101. |
| | **Credit Hours** | **6** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| HTM 210 | Hospitality Financial Planning and Cost Control | 3 | HTM 100 and MTH 108 or higher with minimum grades of "C", and Reading Proficiency | |
| HTM 275 | Travel and Tourism | 3 | HTM 100 with a minimum grade of "C" and Reading Proficiency | Fall only |
| HTM 215 | Hospitality Sales and Marketing | 3 | HTM 100 with a minimum grade of "C" and Reading Proficiency | Fall only |
| HTM 230 | Bar and Beverage Management | 3 | HTM 100 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **12** | | |
| **Spring** | | | | |
| HTM 225 | Hotel Operations | 3 | HTM 100 with a minimum grade of "C" and Reading Proficiency | Spring only |
| HTM 240 | Workplace Learning: Hospitality | 4 | HTM 100 with a minimum grade of "C" and Reading Proficiency | Critical Course: Work Experience (Spring only) |

| | | | | |
|---|---|---|---|---|
| HTM 245 | Meetings and Event Planning | 3 | HTM 100 with a minimum grade of "C" and Reading Proficiency | Spring only |
| Choose one of the following: | | 3-6 | | Critical Course - Students who have previously completed the Culinary Arts, AAS do not need to take HTM 280 and may instead use CUL 250. |
| HTM 280 | Hospitality Management Capstone | | HTM 115 and HTM 210 with minimum grades of "C", and Reading Proficiency | Spring only |
| CUL 250 | Culinary Arts Capstone | | BAP 150, CUL 201, CUL 205, CUL 210, CUL 215, CUL 220, HTM 200, HTM 210 all with a minimum grade of "C", and Reading Proficiency | |
| | **Credit Hours** | **13-16** | | |
| **Summer** | | | | |
| XXX xxx | Natural Science Elective with MOTR designation (p. 416) | 3 | | Consider one of the following courses: BIO 125, BIO 177, PSI 101, PSI 111, or PSI 123. |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | |
| | **Credit Hours** | **6** | | |
| | **Total Credit Hours** | **62-65** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Part-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| MTH 108 | Elementary Applied Mathematics (or higher) | 3 | Reading Proficiency | Critical Course: This course is required for HTM 200 and HTM 210. |
| HTM 100 | Introduction to the Hospitality Industry | 3 | Reading Proficiency | Exploratory, Gateway, and Critical Course. This course is required for all additional HTM courses. |
| CUL 101 | Safety and Sanitation | 1 | Reading Proficiency | |
| | **Credit Hours** | **7** | | |

| | | | | |
|---|---|---|---|---|
| **Spring** | | | | |
| HTM 115 | Hospitality Customer Service and Guest Relations | 3 | HTM 100 with a minimum grade of "C" and Reading Proficiency | |
| HTM 120 | Supervision and Leadership in the Hospitality Industry | 3 | HTM 100 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| **Summer** | | | | |
| ACC 100 | Applied Accounting | 3 | Reading Proficiency or concurrent enrollment in RDG 079 | |
| Choose one of the following: | | 3 | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| ENG 102 | College Composition II (MOTR ENGL 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| XXX xxx | Communications Elective with MOTR Designation | 3 | | Consider one of the following courses: COM 101, COM 103, COM 107, COM 112, and COM 201. |
| HTM 200 | Procurement in the Hospitality Industry | 3 | HTM 100 and MTH 108 or higher with minimum grades of "C", and Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| **Spring** | | | | |
| HTM 205 | Legal Aspects of Hospitality | 3 | HTM 100 with a minimum grade of "C" and Reading Proficiency | |
| HTM 210 | Hospitality Financial Planning and Cost Control | 3 | HTM 100 and MTH 108 or higher with minimum grades of "C", and Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| **Summer** | | | | |
| XXX xxx | Social and Behavioral Science Elective with MOTR designation (p. 416) | 3 | | Consider one of the following courses: COM 200, ECO 140, MCM 101, PSY 200, or SOC 101. |
| | **Credit Hours** | **3** | | |
| **Third Year** | | | | |
| **Fall** | | | | |
| HTM 215 | Hospitality Sales and Marketing | 3 | HTM 100 with a minimum grade of "C" and Reading Proficiency | Fall only |
| HTM 230 | Bar and Beverage Management | 3 | HTM 100 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| **Spring** | | | | |
| HTM 245 | Meetings and Event Planning | 3 | HTM 100 with a minimum grade of "C" and Reading Proficiency | Spring only |

| | | | | |
|---|---|---|---|---|
| HTM 225 | Hotel Operations | 3 | HTM 100 with a minimum grade of "C" and Reading Proficiency | Spring Only |
| | **Credit Hours** | **6** | | |
| **Summer** | | | | |
| XXX xxx | Natural Science Elective with MOTR designation (p. 416) | 3 | | Consider one of the following courses: BIO 125, BIO 177, PSI 101, PSI 111, or PSI 123. |
| | **Credit Hours** | **3** | | |
| **Fourth Year** | | | | |
| **Fall** | | | | |
| HTM 275 | Travel and Tourism | 3 | HTM 100 with a minimum grade of "C" and Reading Proficiency | Fall only |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | |
| | **Credit Hours** | **6** | | |
| **Spring** | | | | |
| HTM 240 | Workplace Learning: Hospitality | 4 | HTM 100 with a minimum grade of "C" and Reading Proficiency | Critical Course: Work Experience (Spring Only) |
| Choose one of the following: | | 3-6 | | Critical Course - Students who have previously completed the Culinary Arts, AAS do not need to take HTM 280 and may instead use CUL 250. |
| HTM 280 | Hospitality Management Capstone | | HTM 115 and HTM 210 with minimum grades of "C", and Reading Proficiency | Spring only |
| CUL 250 | Culinary Arts Capstone | | BAP 150, CUL 201, CUL 205, CUL 210, CUL 215, CUL 220, HTM 200, HTM 210 all with a minimum grade of "C", and Reading Proficiency | |
| | **Credit Hours** | **7-10** | | |
| | **Total Credit Hours** | **62-65** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

Articulation agreements are formal partnerships between St. Louis Community College and colleges or universities that outline how completed coursework transfers toward a specific degree program. These agreements help students continue their education by ensuring the credits earned at STLCC apply toward bachelor's degree requirements at the partner institution. STLCC continually collaborates with colleges and universities to establish new agreements that support a smooth transfer process.

Below is a list of current partner institutions with active articulation agreements for the Associate in Applied Science - Hospitality Management. Some programs include links to academic plans. If a program does not have a linked plan available, students should meet with an academic advisor to obtain the appropriate plan and guidance.

# Missouri State University

- Hospitality Leadership, Bachelor of Applied Science

# Human Services: AAS

**Associate in Applied Science | 60 credit hours minimum**

**School of Education, Public Service, and Social Sciences**

**Program Website (https://stlcc.edu/programs-academics/pathways/s-b-s-h-s-e/human-services/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

The Associate in Applied Science degree in Human Services provides students with a basic social science framework and perspective for pursuing an entry-level position in the field of human services. The program also provides currently employed human service workers the opportunity to upgrade their skills and abilities. Students are taught a specific body of theoretical knowledge and practice skills to integrate into the helping professions.

Students are introduced to human service organizations and resources designed to meet human needs. Students learn to identify various helping strategies and techniques for working with people. Persons interested in this program should enjoy working with people, should possess good communications and problem solving skills, and have a positive attitude about themselves and others.

Graduates are qualified for positions as alcoholism/drug abuse assistants, house parents, nursing home activity therapy assistants, case workers, corrections officers, vocational rehabilitation workers, teacher's aides for exceptional children, and personal assistant. These positions are available in the areas of social welfare, mental health, juvenile and adult correctional programs, geriatrics, education, and related fields in business, industry, and health care.

**Location.** This program is offered at Forest Park by taking a mixture of face-to-face and online courses.

**Related Programs.** The Human Services Department offers a certificate in the following area:

- **Addictions Study, Certificate of Specialization (p. 69)**

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. use theory and evidence based practice to evaluate intervention strategies.
2. describe the roles of an entry level human service practitioner at the micro, mezzo, and macro levels of client service.
3. identify the ways that clients may be affected by the student's personal values, beliefs, experiences, and identities.
4. analyze client information to construct professional notes and reports.
5. describe intervention strategies and services to address conditions that inhibit human functioning.
6. analyze the effect of social policy on the delivery of human services.

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

| Code | Title | Credit Hours |
|---|---|---|
| **General Education** | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 |
| ENG 102 | College Composition II (MOTR ENGL 200) | 3 |
| SOC 101 | Introduction to Sociology (MOTR SOCI 101) | 3 |

| | | |
|---|---|---|
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 |
| PSY 200 | General Psychology (MOTR PSYC 100) | 3 |
| PSY 205 | Human Growth and Development (MOTR PSYC 200) | 3 |
| BIO 111 | Introductory Biology (MOTR BIOL 100L) | 4 |
| MTH 180 | Introductory Statistics (MOTR MATH 110) [1] | 3 |
| or MTH 161 | Quantitative Reasoning (MOTR MATH 120) | |
| **Program Requirements** | | |
| HMS 100 | Introduction to Human Services | 3 |
| HMS 101 | Human Services: Theories and Skills | 3 |
| HMS 102 | Human Services: Policy and Politics | 3 |
| HMS 111 | Group Practice in Human Services | 3 |
| HMS 201 | Workplace Learning I: Human Services | 3 |
| HMS 202 | Workplace Learning II: Human Services | 3 |
| HMS 203 | Human Services Workplace Learning Seminar I | 3 |
| HMS 204 | Human Services Workplace Learning Seminar II | 3 |
| HMS 205 | Crisis Intervention | 3 |
| PRD 128 | Mental Health First Aid | 1 |
| SOC 126 | The Spectrum of Drugs and Society | 3 |
| SOC 211 | Substance Use, Abuse, and Dependence | 3 |
| HW 124 | Community CPR | 1 |
| **Total Credit Hours** | | **60** |

[1] MTH 161S or MTH 180S will also fulfill this requirement, but only 3 credits will apply toward the degree.

# Full-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| SOC 101 | Introduction to Sociology (MOTR SOCI 101) | 3 | Reading Proficiency or concurrent enrollment in RDG 079 | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| HMS 100 | Introduction to Human Services | 3 | Reading Proficiency | Exploratory Course, Gateway Course, and Critical Course |
| PSY 200 | General Psychology (MOTR PSYC 100) | 3 | Reading Proficiency or concurrent enrollment in RDG 079 | |
| PRD 128 | Mental Health First Aid | 1 | Reading Proficiency | |
| | **Credit Hours** | **13** | | |
| **Spring** | | | | |
| SOC 126 | The Spectrum of Drugs and Society | 3 | Reading Proficiency | |
| SOC 211 | Substance Use, Abuse, and Dependence | 3 | Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| ENG 102 | College Composition II (MOTR ENGL 200) | 3 | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| HMS 101 | Human Services: Theories and Skills | 3 | Reading Proficiency | Gateway Course and Critical Course |
| HMS 111 | Group Practice in Human Services | 3 | Reading Proficiency | |
| | **Credit Hours** | **15** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| BIO 111 | Introductory Biology (MOTR BIOL 100L) | 4 | Reading Proficiency or concurrent enrollment in RDG 079 | |
| PSY 205 | Human Growth and Development (MOTR PSYC 200) | 3 | PSY 200 with a minimum grade of "C" and Reading Proficiency | |
| HMS 102 | Human Services: Policy and Politics | 3 | Reading Proficiency | |
| HMS 205 | Crisis Intervention | 3 | Reading Proficiency | |
| HMS 203 | Human Services Workplace Learning Seminar I | 3 | HMS 100 and HMS 101 with grades of "C" or better and Reading Proficiency | |
| HMS 201 | Workplace Learning I: Human Services | 3 | HMS 100 and HMS 101 with grades of "C" or better and Reading Proficiency | |
| | **Credit Hours** | **19** | | |
| **Spring** | | | | |
| HMS 204 | Human Services Workplace Learning Seminar II | 3 | HMS 100, HMS 101, HMS 201 and HMS 203 all with grades of "C" or better and Reading Proficiency | |
| HMS 202 | Workplace Learning II: Human Services | 3 | HMS 201 and HMS 203 with grades of "C" or better and Reading Proficiency | |
| MTH 161<br>or 180 | Quantitative Reasoning (MOTR MATH 120)<br>or Introductory Statistics (MOTR MATH 110) | 3 | Satisfactory score on placement test and Reading Proficiency | MTH 161S or MTH 180S will also fulfill this requirement, but only 3 credits will apply toward the degree. |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | |
| HW 124 | Community CPR | 1 | | |
| | **Credit Hours** | **13** | | |
| | **Total Credit Hours** | **60** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Part-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| HMS 100 | Introduction to Human Services | 3 | Reading Proficiency | Exploratory Course, Gateway Course, and Critical Course |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| | **Credit Hours** | **6** | | |
| **Spring** | | | | |
| HMS 101 | Human Services: Theories and Skills | 3 | Reading Proficiency | Gateway Course and Critical Course |
| ENG 102 | College Composition II (MOTR ENGL 200) | 3 | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| **Summer** | | | | |
| HW 124 | Community CPR | 1 | | |
| | **Credit Hours** | **1** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| HMS 102 | Human Services: Policy and Politics | 3 | Reading Proficiency | |
| SOC 101 | Introduction to Sociology (MOTR SOCI 101) | 3 | Reading Proficiency or concurrent enrollment in RDG 079 | |
| | **Credit Hours** | **6** | | |
| **Spring** | | | | |
| HMS 205 | Crisis Intervention | 3 | Reading Proficiency | |
| PSY 200 | General Psychology (MOTR PSYC 100) | 3 | Reading Proficiency or concurrent enrollment in RDG 079 | |
| | **Credit Hours** | **6** | | |
| **Summer** | | | | |
| PRD 128 | Mental Health First Aid | 1 | Reading Proficiency | |
| | **Credit Hours** | **1** | | |
| **Third Year** | | | | |
| **Fall** | | | | |
| PSY 205 | Human Growth and Development (MOTR PSYC 200) | 3 | PSY 200 with a minimum grade of "C" and Reading Proficiency | |
| BIO 111 | Introductory Biology (MOTR BIOL 100L) | 4 | Reading Proficiency or concurrent enrollment in RDG 079 | |
| | **Credit Hours** | **7** | | |
| **Spring** | | | | |
| SOC 126 | The Spectrum of Drugs and Society | 3 | Reading Proficiency | |
| SOC 211 | Substance Use, Abuse, and Dependence | 3 | Reading Proficiency | |
| | **Credit Hours** | **6** | | |

| | | | | |
|---|---|---|---|---|
| **Summer** | | | | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | |
| | **Credit Hours** | **3** | | |
| **Fourth Year** | | | | |
| **Fall** | | | | |
| HMS 111 | Group Practice in Human Services | 3 | Reading Proficiency | |
| MTH 180<br>or 161 | Introductory Statistics (MOTR MATH 110)<br>or Quantitative Reasoning (MOTR MATH 120) | 3 | Satisfactory scores on placement test, and Reading Proficiency | MTH 161S or MTH 180S will also fulfill this requirement, but only 3 credits will apply toward the degree. |
| | **Credit Hours** | **6** | | |
| **Spring** | | | | |
| HMS 201 | Workplace Learning I: Human Services | 3 | HMS 100 and HMS 101 with grades of "C" or better and Reading Proficiency | |
| HMS 203 | Human Services Workplace Learning Seminar I | 3 | HMS 100 and HMS 101 with grades of "C" or better and Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| **Summer** | | | | |
| HMS 202 | Workplace Learning II: Human Services | 3 | HMS 201 and HMS 203 with grades of "C" or better and Reading Proficiency | Apply for graduation. |
| HMS 204 | Human Services Workplace Learning Seminar II | 3 | HMS 100, HMS 101, HMS 201 and HMS 203 all with grades of "C" or better and Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| | **Total Credit Hours** | **60** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Articulation Agreements

Articulation agreements are formal partnerships between St. Louis Community College and colleges or universities that outline how completed coursework transfers toward a specific degree program. These agreements help students continue their education by ensuring the credits earned at STLCC apply toward bachelor's degree requirements at the partner institution. STLCC continually collaborates with colleges and universities to establish new agreements that support a smooth transfer process.

Below is a list of current partner institutions with active articulation agreements for the Associate in Applied Science - Human Services. Some programs include links to academic plans. If a program does not have a linked plan available, students should meet with an academic advisor to obtain the appropriate plan and guidance.

### University of Missouri - St. Louis

- Social Work, Bachelor of Science

# HVAC Technician: CS

**Certificate of Specialization | 7 credit hours minimum**

**School of Advanced Manufacturing, Transportation, and Hospitality Studies**

**Program Website (https://stlcc.edu/pathways/industrial/hvac-tech/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

HVAC Technician, Certificate of Specialization equips students with the knowledge and expertise needed to excel in the field of heating, ventilation, and air conditioning (HVAC) systems. This program offers comprehensive, hands-on training, preparing students for a rewarding career in this vital field. Students are prepared to pass the EPA Section 608 Certification.

**Locations.** This program is offered in its entirety at Florissant Valley.

**Related Programs.** The Engineering Technology and Manufacturing Department offers an associate in the following area:

- **Engineering Technology, Associate in Applied Science (p. 207)**

**Financial Aid.** This Certificate of Specialization is not eligible for financial aid.

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program “St. Louis Community College” and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. explain the safety regulations for HVAC.
2. apply principles of basic electricity for HVAC systems.
3. evaluate a residential HVAC system.
4. troubleshoot a basic residential HVAC system.
5. maintain and repair HVAC equipment.

# Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Program Requirements** | | |
| GE 140 | Industrial Occupations Fundamentals | 3 |
| GE 141 | OSHA 10 | 1 |
| ME 110 | HVAC Operator I | 3 |
| **Total Credit Hours** | | **7** |

# Part-Time Academic Plan

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| GE 140 | Industrial Occupations Fundamentals | 3 | Reading Proficiency | |
| GE 141 | OSHA 10 | 1 | Reading Proficiency | |
| ME 110 | HVAC Operator I | 3 | Reading Proficiency | Exploratory Course, Gateway Course, Critical Course |
| | **Credit Hours** | **7** | | |
| | **Total Credit Hours** | **7** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# IT Help Desk/End User Support: CS

**Certificate of Specialization | 19 credit hours minimum**

**School of Business and Computer Information Technology**

**Program Website (https://stlcc.edu/programs-academics/pathways/s-t-e-m/it-help-desk-end-user-support/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

IT Help Desk/End User Support Certificate of Specialization is a skill-oriented program that prepares students for help desk, computer support, and computer technician positions. The foundational principles of end-user support including client operating, system and application software, hardware installation, software installation, system configuration, problem diagnosis and resolution, and computer security will be covered. The courses in the program provide a combination of online, distance learning, and classroom-based in-depth hands-on skills development. The demonstration of hands-on skills is critical to employers. Students completing the program are prepared for a variety of industry certification exams as well as entry-level employment in a help desk or desktop support position.

**Locations.** This program is offered in its entirety at Florissant Valley and Forest Park by taking a mixture of face-to-face and online courses.

**Related Programs.** The Computer and Information Technology Department offers certificates in the following areas:

- **CompTIA A+ Certification, Certificate of Specialization (p. 144)**
- **CompTIA A+ and Security+ Certifications, Certificate of Specialization (p. 146)**
- **Network Security Engineering, Associate in Applied Science (p. 307)**
- **Network Security Engineering, Certificate of Proficiency (p. 313)**

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. demonstrate professional customer service skills.
2. apply best practices in help desk operations.
3. troubleshoot computer problems.
4. configure end-user devices.
5. train computer users.
6. utilize the appropriate office applications.
7. document problems and resolution.
8. analyze knowledge based systems.
9. apply secure enterprise settings.
10. utilize active directory tools.
11. explain technical inquiries through multiple channels.
12. apply PowerShell scripting.
13. apply group policies and procedures.

# Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Program Requirements** | | |
| IT 102 | Desktop Software Support - CompTIA A+ Core 2 (Software) | 3 |
| IS 130 | Hardware Support - CompTIA A+ Core 1 (Hardware) | 3 |
| IS 151 | Computer Applications in Business | 4 |
| IS 237 | Fundamentals of Information Assurance/Security - CompTIA Security+ | 3 |
| IS 291 | Workplace Learning: Computer and Information Technology | 3 |
| IS 112 | | 3 |
| **Total Credit Hours** | | **19** |

# Academic Plan

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| IT 102 | Desktop Software Support - CompTIA A + Core 2 (Software) | 3 | Reading Proficiency | Gateway Course. 1st 8-week hybrid format |
| IS 130 | Hardware Support - CompTIA A+ Core 1 (Hardware) | 3 | Reading Proficiency | Gateway Course. 1st 8-week hybrid format |
| IS 151 | Computer Applications in Business | 4 | Concurrent or prior enrollment in IS 122 or IS 123 or IT 102 or HIM 102 with a minimum grade of "C" or equivalent experience and Reading Proficiency | 2nd 8-week online format |

| | | | | |
|---|---|---|---|---|
| IS 237 | Fundamentals of Information Assurance/Security - CompTIA Security + | 3 | IT 102 or IS 229 with a minimum grade of "C" and Reading Proficiency | 2nd 8-week hybrid format |
| IS 112 | | 3 | | Exploratory Course. 16-week online format |
| IS 291 | Workplace Learning: Computer and Information Technology | 3 | Enrollment in an IS program, department approval, and Reading Proficiency | 16-week hybrid format |
| | **Credit Hours** | **19** | | |
| | **Total Credit Hours** | **19** | | |

**Students should take** CIT 112 **in place of IS 112.**

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Part-Time Academic Plan

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| IT 102 | Desktop Software Support - CompTIA A + Core 2 (Software) | 3 | Reading Proficiency | Gateway course. 1st 8-week hybrid format |
| IS 130 | Hardware Support - CompTIA A+ Core 1 (Hardware) | 3 | Reading Proficiency | Gateway Course. 1st 8 week hybrid format |
| IS 112 | | 3 | | Exploratory course. 16-week online format |
| | **Credit Hours** | **9** | | |
| **Spring** | | | | |
| IS 151 | Computer Applications in Business | 4 | Concurrent or prior enrollment in IS 122 or IS 123 or IT 102 or HIM 102 with a minimum grade of "C" or equivalent experience and Reading Proficiency | 2nd 8-week online format |
| IS 237 | Fundamentals of Information Assurance/Security - CompTIA Security + | 3 | IT 102 or IS 229 with a minimum grade of "C" and Reading Proficiency | 8-week hybrid format |

| | | | | |
|---|---|---|---|---|
| IS 291 | Workplace Learning: Computer and Information Technology | 3 | Enrollment in an IS program, department approval, and Reading Proficiency | 16-week hybrid format |
| | **Credit Hours** | **10** | | |
| | **Total Credit Hours** | **19** | | |

**Students should take** CIT 112 **in place of IS 112.**

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Interior Design: AAS

**Associate in Applied Science | 60 credit hours minimum**

**School of Communication, Design, and Creative Arts**

**Program Website (https://stlcc.edu/programs-academics/pathways/a-d-h-c/interior-design/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

The Associate in Applied Science degree in Interior Design prepares students for careers in interior design. The curriculum emphasizes a strong foundation in visual art skills, architecture, and space planning. Utilizing these foundations, students develop creative projects using a systematic approach to the design processes.

The coursework for the interior design program includes solving interior design-related problems by developing free-hand and drafting skills, computer skills, and oral presentation skills. Graduates will be familiar with local and national trade, professional and industry resources. Issues in sustainable and universal design are also explored within the studio environment.

Persons interested in this program should have a strong desire to work with people, enjoy functional problem solving, and appreciate the impact of design in our environment. Previous drawing, design, or drafting courses are also helpful.

Graduates of the program are qualified for entry-level positions in residential and/or commercial interior design and related fields. Careers in interior design may include: residential design, commercial design, health care design, hospitality design, kitchen and bath design, office design, architectural firms, retail stores, wholesale showrooms, and lighting design. Graduates also may be employed as manufacturers' product representatives, freelance designers, or facilities planning assistants.

**Locations.** This program is offered at Meramec by taking a mixture of face-to-face and online courses.

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. apply free-hand drawing, hand drafting, computer drafting, rendering, and oral presentation skills to communicate design ideas.
2. develop creative projects using a systematic approach to the design processes.
3. apply the principles and elements of design to design solutions.
4. evaluate interior construction methods, building systems, building codes, fire codes, and life safety codes and their impact on interior planning and design.
5. analyze architecture, interiors, and art within a historical and cultural context.
6. integrate visual art skills in two-dimensional and three-dimensional design to design solutions.
7. compose design solutions that reflect color and light in interior environments.
8. evaluate the accepted ethical standards for the industry and the commitment of a professional interior designer to the built environment.
9. develop design solutions that incorporate behavioral science and human factors on interior design planning.
10. select interior finishes, furniture, and equipment appropriate for the designed interior environment.
11. prepare interior finish, furniture, and fixture specifications.
12. identify sustainable design solutions and apply them to studio coursework.

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

| Code | Title | Credit Hours |
|---|---|---|
| **General Education** | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 |
| or ENG 102 | College Composition II (MOTR ENGL 200) | |
| PSY 200 | General Psychology (MOTR PSYC 100) | 3 |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 |
| XXX xxx | MOTR Natural Science OR MTH 108 or higher | 3 |
| ART 102 | Art History - 1300 to Present (MOTR ARTS 102) | 3 |
| **Program Requirements** | | |
| ART 140 | Two-Dimensional Design | 3 |
| ART 109 | Drawing I (MOTR PERF 105D) | 3 |
| ART 131 | Computer Art Studio | 3 |
| ART 150 | Design Communication for Interior Design and Architecture | 3 |
| ART 154 | Architectural Graphics and Technology I | 3 |
| AT 287 | Architectural Graphics and Technology II | 3 |
| ART 153 | History of Cultural Environments I | 3 |
| ART 254 | History of Cultural Environments II | 3 |
| ART 186 | Building Systems and Construction for Interior Designers | 3 |
| ART 151 | Interior Design I | 3 |
| ART 251 | Interior Design II | 3 |
| ART 252 | Interior Design III | 3 |
| ART 253 | Interior Design IV | 3 |
| AT 151 | Interior Specifications, Materials, and Methods | 3 |
| AT 152 | Lighting Design | 3 |
| **Total Credit Hours** | | **60** |

# Full-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| ART 154 | Architectural Graphics and Technology I | 3 | Reading Proficiency | Exploratory Course, Gateway Course, Critical Course |
| ART 151 | Interior Design I | 3 | Concurrent or prior enrollment in ART 154 with a minimum grade of "C" and Reading Proficiency | Exploratory Course, Gateway Course, Critical Course |
| ART 131 | Computer Art Studio | 3 | Reading Proficiency | |
| ART 140 | Two-Dimensional Design | 3 | Reading Proficiency | |
| ART 109 | Drawing I (MOTR PERF 105D) | 3 | Reading Proficiency | |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| Select one of the following: | | 3 | | Reference transfer guides prior to selecting a course. Suggested courses: MTH 160S, MTH 161, MTH 180, GEO 100, GEO 103, or PSI 101. |
| XXX xxx | MOTR Natural Science (p. 416) | | | |
| MTH 108 | Elementary Applied Mathematics (or higher) | | Reading Proficiency | |
| ART 251 | Interior Design II | 3 | ART 154 and ART 151 with a grade of "C" or better and Reading Proficiency | |
| ART 150 | Design Communication for Interior Design and Architecture | 3 | ART 154 with a minimum grade of "C" and Reading Proficiency | |
| AT 151 | Interior Specifications, Materials, and Methods | 3 | Reading Proficiency | |
| Choose one of the following: | | 3 | | Reference transfer guides prior to selecting a course. |
| ENG 101 | College Composition I (MOTR ENGL 100) | | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| ENG 102 | College Composition II (MOTR ENGL 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **15** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| ART 252 | Interior Design III | 3 | ART 251 with a minimum grade of "C" and Reading Proficiency | Offered Fall semesters only |
| AT 287 | Architectural Graphics and Technology II | 3 | ART 154 and ART 251 with minimum grades of "C", and Reading Proficiency | |
| ART 153 | History of Cultural Environments I | 3 | Reading Proficiency | Offered Fall semesters only |
| ART 186 | Building Systems and Construction for Interior Designers | 3 | Reading Proficiency | |
| PSY 200 | General Psychology (MOTR PSYC 100) | 3 | Reading Proficiency or concurrent enrollment in RDG 079 | |
| | **Credit Hours** | **15** | | |

| | | | | |
|---|---|---|---|---|
| **Spring** | | | | |
| ART 253 | Interior Design IV | 3 | ART 252 with a minimum grade of "C" and Reading Proficiency | Offered Spring semesters only |
| ART 254 | History of Cultural Environments II | 3 | ART 153 with a minimum grade of "C" and Reading Proficiency | Offered Spring semesters only |
| ART 102 | Art History - 1300 to Present (MOTR ARTS 102) | 3 | Reading Proficiency | Apply for graduation. |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | Reference transfer agreements before selecting a course. |
| AT 152 | Lighting Design | 3 | ART 151 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **15** | | |
| | **Total Credit Hours** | **60** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Part-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| ART 154 | Architectural Graphics and Technology I | 3 | Reading Proficiency | Exploratory Course, Gateway Course, Critical Course |
| ART 151 | Interior Design I | 3 | Concurrent or prior enrollment in ART 154 with a minimum grade of "C" and Reading Proficiency | Exploratory Course, Gateway Course, Critical Course |
| ART 131 | Computer Art Studio | 3 | Reading Proficiency | |
| | **Credit Hours** | **9** | | |
| **Spring** | | | | |
| Select one of the following: | | 3 | | Reference transfer guides prior to selecting a course. Suggested Courses: MTH 160S, MTH 161, MTH 180, GEO 100, GEO 103, or PSI 101. |
| XXX xxx | MOTR Natural Science (p. 416) | | | |

| | | | | |
|---|---|---|---|---|
| MTH 108 | Elementary Applied Mathematics (or higher) | | Reading Proficiency | |
| ART 251 | Interior Design II | 3 | ART 154 and ART 151 with a grade of "C" or better and Reading Proficiency | |
| ART 150 | Design Communication for Interior Design and Architecture | 3 | ART 154 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **9** | | |
| **Summer** | | | | |
| AT 151 | Interior Specifications, Materials, and Methods | 3 | Reading Proficiency | |
| Select one of the following: | | 3 | | Reference transfer guides prior to selecting a course. |
| ENG 101 | College Composition I (MOTR ENGL 100) | | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| ENG 102 | College Composition II (MOTR ENGL 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| ART 252 | Interior Design III | 3 | ART 251 with a minimum grade of "C" and Reading Proficiency | Offered Fall semesters only |
| AT 287 | Architectural Graphics and Technology II | 3 | ART 154 and ART 251 with minimum grades of "C", and Reading Proficiency | |
| ART 153 | History of Cultural Environments I | 3 | Reading Proficiency | Offered Fall semesters only |
| | **Credit Hours** | **9** | | |
| **Spring** | | | | |
| ART 253 | Interior Design IV | 3 | ART 252 with a minimum grade of "C" and Reading Proficiency | Offered Spring semesters only |
| ART 254 | History of Cultural Environments II | 3 | ART 153 with a minimum grade of "C" and Reading Proficiency | Offered Spring semesters only |
| ART 102 | Art History - 1300 to Present (MOTR ARTS 102) | 3 | Reading Proficiency | |
| | **Credit Hours** | **9** | | |
| **Summer** | | | | |
| ART 186 | Building Systems and Construction for Interior Designers | 3 | Reading Proficiency | |
| | **Credit Hours** | **3** | | |
| **Third Year** | | | | |
| **Fall** | | | | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | Reference transfer agreements before selecting course. |
| AT 152 | Lighting Design | 3 | ART 151 with a minimum grade of "C" and Reading Proficiency | |
| ART 140 | Two-Dimensional Design | 3 | Reading Proficiency | |
| | **Credit Hours** | **9** | | |

| | | | | |
|---|---|---|---|---|
| **Spring** | | | | |
| ART 109 | Drawing I (MOTR PERF 105D) | 3 | Reading Proficiency | |
| PSY 200 | General Psychology (MOTR PSYC 100) | 3 | Reading Proficiency or concurrent enrollment in RDG 079 | |
| | **Credit Hours** | **6** | | |
| | **Total Credit Hours** | **60** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Articulation Agreements

Articulation agreements are formal partnerships between St. Louis Community College and colleges or universities that outline how completed coursework transfers toward a specific degree program. These agreements help students continue their education by ensuring the credits earned at STLCC apply toward bachelor's degree requirements at the partner institution. STLCC continually collaborates with colleges and universities to establish new agreements that support a smooth transfer process.

Below is a list of current partner institutions with active articulation agreements for the Associate in Applied Science - Interior Design. Some programs include links to academic plans. If a program does not have a linked plan available, students should meet with an academic advisor to obtain the appropriate plan and guidance.

## University of Missouri - Columbia

- Human Environmental Sciences in Architectural Studies with an Emphasis in Interior Design, Bachelor of Science

# Legal Studies for the Paralegal: AAS

**Associate in Applied Science | 60 credit hours minimum**

**School of Business and Computer Information Technology**

**Program Website (https://stlcc.edu/programs-academics/pathways/s-b-s-h-s-e/legal-studies-for-the-paralegal/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

The Associate in Applied Science in Legal Studies for the Paralegal degree at St. Louis Community College is the oldest Paralegal degree program in the United States. It prepares and enhances student knowledge and skills for careers in the paralegal profession. Students develop a basic legal vocabulary and gain an understanding of Federal and Missouri statutes, cases, regulations and court systems. Students will be able to describe the legal process as well as study concepts from various specific areas of law. Students develop skills in analyzing legal problems, drafting/preparing legal documents and enhancing their professional development.

Persons interested in this program should have an interest in the law. They should be self-motivated, able to work without supervision and have good oral and written communication skills.

Graduates are qualified for positions as paralegals in private law firms, corporations, government agencies, and other businesses.

**Locations.** This program is offered at Meramec by taking a mixture of face-to-face and online courses.

**Related Programs.** The Legal Studies Department offers a certificate in the following area:

- **Legal Studies for the Paralegal, Certificate of Proficiency (p. 299)**

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. draft legal documents while demonstrating appropriate grammar.
2. analyze legal documents as well as other case matter resources to identify and summarize relevant materials for the case.
3. examine case matter and identify appropriate research resources as well as analyze research results to support case matter while demonstrating appropriate grammar.
4. identify and assemble legal documents and court forms required for case matter.
5. implement appropriate management of clients and case matters including calendar control, file management and billing.
6. formulate an action plan to facilitate the resolution of the case matter and implement plan to conclusion of the case.
7. select opportunities to pursue professional development while demonstrating appropriate communication skills.
8. describe fundamental elements involved in the conduct of business.
9. demonstrate effective written and oral communication skills.

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

| Code | Title | Credit Hours |
|---|---|---|
| **General Education** | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 |
| ENG 103 | Report Writing (MOTR ENGL 110) (recommended) | 3 |
| or ENG 102 | College Composition II (MOTR ENGL 200) | |
| XXX xxx | CORE 42 Natural Science or MTH 140 or higher | 3 |
| XXX xxx | Social and Behavioral Sciences: Civics Requirement (p. 416) | 3 |
| COM 101 | Oral Communication I (MOTR COMM 100) | 3 |
| or COM 107 | Public Speaking (MOTR COMM 110) | |
| or COM 201 | Interpersonal Communication (MOTR COMM 120) | |
| **Program Requirements** | | |
| PSY 200 | General Psychology (MOTR PSYC 100) | 3 |
| BUS 101 | Small Business Management (recommended) | 3 |
| or BUS 104 | Introduction to Business Administration | |
| LGL 110 | Introduction to Law | 3 |
| LGL 111 | Law Office Management | 3 |
| LGL 113 | Computers and the Law | 3 |
| LGL 217 | Legal Research | 3 |
| LGL 218 | Legal Writing | 3 |
| LGL 235 | Civil Litigation | 3 |
| **Business Electives** | | |
| Select 6 credit hours from the following: | | 6 |
| ACC 100 | Applied Accounting | |
| IS 116 | Computer Literacy | |
| MKT 203 | Principles of Marketing | |
| **Legal Studies Electives** | | |

| | | |
|---|---|---|
| Select 15 credit hours from the following: | | 15 |
| **Group I Electives (select at least two courses from the Group I Electives)** | | |
| LGL 112 | Contract Law | |
| LGL 202 | Wills, Trusts, and Probate | |
| LGL 211 | Tort Law | |
| LGL 228 | Family Law | |
| **Group II Electives** | | |
| LGL 205 | Real Estate Law | |
| LGL 206 | Administrative Law | |
| LGL 230 | Employment Law | |
| LGL 236 | Topics in Law | |
| LGL 240 | Advanced Civil Litigation | |
| LGL 290 | Workplace Learning: Paralegal | |
| **Total Credit Hours** | | **60** |

# Full-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| PSY 200 | General Psychology (MOTR PSYC 100) | 3 | Reading Proficiency or concurrent enrollment in RDG 079 | |
| LGL 110 | Introduction to Law | 3 | Reading Proficiency | Exploratory Course, Gateway Course, Critical Course |
| LGL 113 | Computers and the Law | 3 | Reading Proficiency | |
| Choose one of the following: | | 3 | | |
| MTH 140 | Intermediate Algebra (or higher) | | Satisfactory placement and Reading Proficiency | |
| XXX xxx | MOTR Natural Science (p. 416) | | | |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| ENG 103<br>or 102 | Report Writing (MOTR ENGL 110)<br>or College Composition II (MOTR ENGL 200) | 3 | ENG 101 with a minimum grade of "C" and Reading Proficiency | ENG 103 is recommended. |
| LGL 235 | Civil Litigation | 3 | LGL 110 or LGL 108 with a minimum grade of "C" and Reading Proficiency | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | |
| LGL 111 | Law Office Management | 3 | Reading Proficiency | |
| Choose one of the following: | | 3 | | |

| | | | | |
|---|---|---|---|---|
| COM 101 | Oral Communication I (MOTR COMM 100) | | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | |
| COM 107 | Public Speaking (MOTR COMM 110) | | Reading Proficiency | |
| COM 201 | Interpersonal Communication (MOTR COMM 120) | | Reading Proficiency | |
| | **Credit Hours** | **15** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| LGL 217 | Legal Research | 3 | LGL 110 or LGL 108 with a minimum grade of "C", ENG 100 or ENG 101 with a minimum grade of "C", and Reading Proficiency | Take first 8 weeks. |
| LGL 218 | Legal Writing | 3 | LGL 217 with a minimum grade of "C" and Reading Proficiency | Take second 8 weeks. |
| BUS 101<br>or 104 | Small Business Management<br>or Introduction to Business Administration | 3 | Reading Proficiency | BUS 101 is recommended. |
| Choose one of the following: | | 3 | | |
| ACC 100 | Applied Accounting | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| MKT 203 | Principles of Marketing | | BUS 104 and ECO 152 with minimum grades of "C", and Reading Proficiency | |
| IS 116 | Computer Literacy | | Reading Proficiency | |
| Choose one of the following: | | 3 | | |
| LGL 112 | Contract Law | | Reading Proficiency | |
| LGL 202 | Wills, Trusts, and Probate | | LGL 110 or LGL 108 with a minimum grade of "C" and Reading Proficiency | |
| LGL 211 | Tort Law | | LGL 110 or LGL 108 with a minimum grade of "C" and Reading Proficiency | |
| LGL 228 | Family Law | | LGL 110 or LGL 108 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| XXX xxx | LGL Elective | 3 | | Apply for graduation. |
| Choose one of the following: | | 3 | | |
| ACC 100 | Applied Accounting | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| MKT 203 | Principles of Marketing | | BUS 104 and ECO 152 with minimum grades of "C", and Reading Proficiency | |
| IS 116 | Computer Literacy | | Reading Proficiency | |
| XXX xxx | LGL Elective | 3 | | |
| Choose one of the following: | | 3 | | |
| LGL 112 | Contract Law | | Reading Proficiency | |
| LGL 202 | Wills, Trusts, and Probate | | LGL 110 or LGL 108 with a minimum grade of "C" and Reading Proficiency | |
| LGL 211 | Tort Law | | LGL 110 or LGL 108 with a minimum grade of "C" and Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| LGL 228 | Family Law | | LGL 110 or LGL 108 with a minimum grade of "C" and Reading Proficiency | |
| XXX xxx | LGL Elective | 3 | | LGL 290 is recommended. |
| | **Credit Hours** | **15** | | |
| | **Total Credit Hours** | **60** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Part-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| LGL 110 | Introduction to Law | 3 | Reading Proficiency | Exploratory Course, Gateway Course, Critical Course |
| | **Credit Hours** | **6** | | |
| **Spring** | | | | |
| ENG 102<br>or 103 | College Composition II (MOTR ENGL 200)<br>or Report Writing (MOTR ENGL 110) | 3 | ENG 101 with a minimum grade of "C" and Reading Proficiency | ENG 103 is recommended. |
| XXX xxx | Social & Behavioral Sciences: Civics (p. 416) | 3 | | |
| Choose one of the following: | | 3 | | |
| LGL 112 | Contract Law | | Reading Proficiency | |
| LGL 202 | Wills, Trusts, and Probate | | LGL 110 or LGL 108 with a minimum grade of "C" and Reading Proficiency | |
| LGL 211 | Tort Law | | LGL 110 or LGL 108 with a minimum grade of "C" and Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| LGL 228 | Family Law | | LGL 110 or LGL 108 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **9** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| LGL 217 | Legal Research | 3 | LGL 110 or LGL 108 with a minimum grade of "C", ENG 100 or ENG 101 with a minimum grade of "C", and Reading Proficiency | Take first 8-week. |
| LGL 218 | Legal Writing | 3 | LGL 217 with a minimum grade of "C" and Reading Proficiency | Take second 8-week. |
| BUS 101<br>or 104 | Small Business Management<br>or Introduction to Business Administration | 3 | Reading Proficiency | BUS 101 is recommended. |
| | **Credit Hours** | **9** | | |
| **Spring** | | | | |
| Choose one of the following: | | 3 | | |
| LGL 112 | Contract Law | | Reading Proficiency | |
| LGL 202 | Wills, Trusts, and Probate | | LGL 110 or LGL 108 with a minimum grade of "C" and Reading Proficiency | |
| LGL 211 | Tort Law | | LGL 110 or LGL 108 with a minimum grade of "C" and Reading Proficiency | |
| LGL 228 | Family Law | | LGL 110 or LGL 108 with a minimum grade of "C" and Reading Proficiency | |
| LGL 235 | Civil Litigation | 3 | LGL 110 or LGL 108 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| **Third Year** | | | | |
| **Fall** | | | | |
| PSY 200 | General Psychology (MOTR PSYC 100) | 3 | Reading Proficiency or concurrent enrollment in RDG 079 | |
| Choose one of the following: | | 3 | | |
| COM 101 | Oral Communication I (MOTR COMM 100) | | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | |
| COM 107 | Public Speaking (MOTR COMM 110) | | Reading Proficiency | |
| COM 201 | Interpersonal Communication (MOTR COMM 120) | | Reading Proficiency | |
| LGL 113 | Computers and the Law | 3 | Reading Proficiency | |
| | **Credit Hours** | **9** | | |
| **Spring** | | | | |
| LGL 111 | Law Office Management | 3 | Reading Proficiency | |
| Choose one of the following: | | 3 | | |
| ACC 100 | Applied Accounting | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| IS 116 | Computer Literacy | | Reading Proficiency | |
| MKT 203 | Principles of Marketing | | BUS 104 and ECO 152 with minimum grades of "C", and Reading Proficiency | |
| | **Credit Hours** | **6** | | |

| | | | | |
|---|---|---|---|---|
| **Fourth Year** | | | | |
| **Fall** | | | | |
| XXX xxx | LGL Elective | 3 | | |
| Choose one of the following: | | 3 | | |
| ACC 100 | Applied Accounting | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| IS 116 | Computer Literacy | | Reading Proficiency | |
| MKT 203 | Principles of Marketing | | BUS 104 and ECO 152 with minimum grades of "C", and Reading Proficiency | |
| Choose one of the following: | | 3 | | |
| MTH 140 | Intermediate Algebra (or higher) | | Satisfactory placement and Reading Proficiency | |
| XXX xxx | MOTR Natural Science (p. 416) | | | |
| | **Credit Hours** | **9** | | |
| **Spring** | | | | |
| XXX xxx | LGL Elective | 3 | | Apply for graduation. |
| XXX xxx | LGL Elective | 3 | | LGL 290 is recommended. |
| | **Credit Hours** | **6** | | |
| | **Total Credit Hours** | **60** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Legal Studies for the Paralegal: CP

**Certificate of Proficiency | 33 credit hours minimum**

**School of Business and Computer Information Technology**

**Program Website (https://stlcc.edu/programs-academics/pathways/s-b-s-h-s-e/legal-studies-for-the-paralegal/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

The Certificate of Proficiency in Legal Studies for the Paralegal prepares and enhances student knowledge and skills for careers in the paralegal profession.

The certificate is designed for students who have the following:

- a college degree, either an associate or bachelor, in any subject matter;
- or a minimum of 60 college credit hours which include Communications (3 credit hours), Social Science (3 credit hours), Science/Mathematics (3 credit hours) and Business (9 credit hours);

- or a department approval to be limited to persons with five or more years of experience working under the direct supervision of an attorney in a law office, company, corporation or court.

Students develop a basic legal vocabulary and gain an understanding of Federal and Missouri statutes, cases, regulations and court systems. Students will be able to describe the legal process as well as study concepts from various specific areas of law. Students develop skills in analyzing legal problems, drafting/preparing legal documents and enhancing their professional development.

Persons interested in this program should have an interest in the law. They should be self-motivated, able to work without supervision and have good oral and written communication skills.

Graduates are qualified for positions as paralegals in private law firms, corporations, government agencies, or other businesses.

**Locations.** This program is offered at Meramec by taking a mixture of face-to-face and online courses.

**Related Programs.** The Legal Studies Department offers an associate in the following area:

- **Legal Studies for the Paralegal, Associate in Applied Science (p. 293)**

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. draft legal documents.
2. analyze legal documents as well as other case matter resources to identify and summarize relevant materials for the case.
3. examine case matter and identify appropriate research resources as well as analyze research results to support case matter.
4. identify and assemble legal documents and court forms required for case matter.
5. implement appropriate management of clients and case matters including calendar control, file management and billing.
6. formulate an action plan to facilitate the resolution of the case matter and implement plan to conclusion of the case.
7. select opportunities to pursue professional development.

# Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Program Requirements** | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 |
| LGL 110 | Introduction to Law | 3 |
| LGL 111 | Law Office Management | 3 |
| LGL 113 | Computers and the Law | 3 |
| LGL 217 | Legal Research | 3 |
| LGL 218 | Legal Writing | 3 |
| LGL 235 | Civil Litigation | 3 |
| **Legal Studies Electives** | | |
| Select 12 credit hours from the following: | | 12 |
| **Group I Electives (select at least two courses from the Group I Electives)** | | |
| LGL 112 | Contract Law | |
| LGL 202 | Wills, Trusts, and Probate | |
| LGL 211 | Tort Law | |
| LGL 228 | Family Law | |
| **Group II Electives** | | |
| LGL 205 | Real Estate Law | |

| | |
|---|---|
| LGL 206 | Administrative Law |
| LGL 230 | Employment Law |
| LGL 236 | Topics in Law |
| LGL 240 | Advanced Civil Litigation |
| LGL 290 | Workplace Learning: Paralegal |
| **Total Credit Hours** | **33** |

# Part-Time Academic Plan

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| LGL 110 | Introduction to Law | 3 | Reading Proficiency | Exploratory Course, Gateway Course, Critical Course |
| LGL 113 | Computers and the Law | 3 | Reading Proficiency | |
| | **Credit Hours** | **9** | | |
| **Spring** | | | | |
| LGL 111 | Law Office Management | 3 | Reading Proficiency | |
| LGL 235 | Civil Litigation | 3 | LGL 110 or LGL 108 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| LGL 217 | Legal Research | 3 | LGL 110 or LGL 108 with a minimum grade of "C", ENG 100 or ENG 101 with a minimum grade of "C", and Reading Proficiency | Take first 8-week. |
| LGL 218 | Legal Writing | 3 | LGL 217 with a minimum grade of "C" and Reading Proficiency | Take second 8-week. |
| Choose one of the following: | | 3 | | |
| LGL 112 | Contract Law | | Reading Proficiency | |
| LGL 202 | Wills, Trusts, and Probate | | LGL 110 or LGL 108 with a minimum grade of "C" and Reading Proficiency | |
| LGL 211 | Tort Law | | LGL 110 or LGL 108 with a minimum grade of "C" and Reading Proficiency | |
| LGL 228 | Family Law | | LGL 110 or LGL 108 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **9** | | |
| **Spring** | | | | |
| XXX xxx | LGL Elective | 3 | | Apply for graduation. |
| XXX xxx | LGL Elective | 3 | | |
| Choose one of the following: | | 3 | | |

| | | | | |
|---|---|---|---|---|
| LGL 112 | Contract Law | | Reading Proficiency | |
| LGL 202 | Wills, Trusts, and Probate | | LGL 110 or LGL 108 with a minimum grade of "C" and Reading Proficiency | |
| LGL 211 | Tort Law | | LGL 110 or LGL 108 with a minimum grade of "C" and Reading Proficiency | |
| LGL 228 | Family Law | | LGL 110 or LGL 108 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **9** | | |
| | **Total Credit Hours** | **33** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Magnetic Resonance Imaging: CP

**Certificate of Proficiency | 42 credit hours minimum**

**School of Health Professions**

**Program Website (https://stlcc.edu/pathways/health/magnetic-resonance-imaging/)**

**Academic Advising (https://stlcc.edu/admissions/advising/academic.aspx)**

## Program Description:

The Magnetic Resonance Imaging (MRI) Certificate of Proficiency provides training in MRI technologies and procedures for graduates of an associate degree program or two-year hospital-based program in another health science area. Students attend full-time and complete classroom work on campus, while clinical education is completed in an affiliated MRI department. The MRI certificate provides the student with the required didactic and clinical competencies to perform as a Magnetic Resonance Imaging Technologist in medical imaging departments of hospitals, medical centers, and free-standing diagnostic imaging facilities. Upon successful completion of the program, students are eligible to complete the American Registry of Radiologic Technologists (ARRT) MRI registry examination.

Program Prerequisite Requirements:

- Completion of all program prerequisites prior to submitting an application. Must earn a "C" or higher in the following courses:
  - BIO 111 Introductory Biology or BIO 140 Principles of Biology I or CHM 101 Fundamentals of Chemistry I
  - BIO 207 Anatomy and Physiology I
  - BIO 208 Anatomy and Physiology II
  - PHY 111 College Physics I or PSI 101 Physical Science or XRT 107 Radiologic Physics I
  - MTH 160 Precalculus Algebra or MTH 160S Precalculus Algebra with Support or MTH 180 Introductory Statistics or MTH 180S Introductory Statistics with Support
  - HIM 101 Medical Terminology and Language
  - ENG 101 College Composition I or ENG 102 College Composition II
  - COM 101 Oral Communication I or COM 107 Public Speaking
- Associate degree or higher
- Cumulative GPA of 2.7 or better for all coursework; cumulative GPA of 3.0 or better for Mathematics and Sciences courses (Physics or Physical Science or Radiologic Physics, Anatomy and Physiology I and II, Precalculus Algebra or Introductory Statistics)
- Only one repeat of a course prerequisite is allowed over a five-year period
- Complete 4 hours of job shadowing

- Complete 40 hours in a patient care setting (can be voluntary service within a hospital or nursing home)
- Mathematics and science prerequisite courses (except BIO 111 or BIO 140 or CHM 101) must have been completed within five years of applying to the program
  - Students who have graduated within the last 2 years from a JRCERT-accredited Radiologic Technology program are not required to retake math or science courses that are more than 5 years old. All required courses and other prerequisites must have still been completed to be eligible to apply.
  - If a student's math prerequisite was taken over 5 years ago, they may take the math placement test and do not have to retake the math prerequisite if the score is 264 or higher on Accuplacer Next-Gen QAS.

All applicants must complete a criminal background check and drug screen through a college-approved background screening company prior to the beginning of the fall semester of admission. The student will be responsible for the cost of the background check and drug screen. Students not passing the criminal background check and/or drug screen may be prohibited from participating in clinical education. This will prevent the student from being able to complete all program requirements for graduation.

Students are required to complete a health history, immunization record, physical exam, essential functions acknowledgment form, criminal background check, drug screen, and American Heart Association Basic Life Support (BLS) for Healthcare Providers CPR certification prior to the first day of class.

**Location.** This program is offered in its entirety at Wildwood.

**Licensure.** This program meets the educational requirements for state licensure in the following states: North Dakota, New Hampshire, New Mexico, Oregon, and West Virginia. Students interested in pursuing licensure in a different state should contact the program coordinator for more information.

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. summarize the principles of magnetic resonance imaging physics, image formation, and data processing.
2. differentiate the characteristics of spin echo and gradient echo pulse sequences.
3. predict the effects of scan parameter adjustment on image appearance.
4. evaluate the appearance of normal anatomical structures and pathological features on magnetic resonance images.
5. diagram the components of magnetic resonance imaging systems.
6. provide safety education to all individuals within the magnetic resonance imaging environment.
7. perform safety screening on all individuals prior to entering the magnetic resonance imaging environment.
8. mitigate safety risks and hazards within the magnetic resonance imaging environment.
9. perform magnetic resonance imaging procedures specific to the head, neck, chest, spine, abdomen, pelvis, and musculoskeletal system.
10. evaluate factors for safe administration of magnetic resonance imaging contrast media.
11. administer contrast media during magnetic resonance imaging procedures.
12. perform quality control procedures on magnetic resonance imaging system components.
13. assess the findings of quality control procedures.

# Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Program Requirements** | | |
| MRI 101 | Magnetic Resonance Imaging Clinical Applications I | 5 |
| MRI 102 | Magnetic Resonance Imaging Anatomy & Pathology I | 3 |
| MRI 103 | Magnetic Resonance Imaging Instrumentation I | 3 |
| MRI 104 | Magnetic Resonance Imaging Safety & Patient Care I | 3 |
| MRI 105 | Magnetic Resonance Imaging Physics I | 3 |
| MRI 201 | Magnetic Resonance Imaging Clinical Applications II | 2 |
| MRI 202 | Magnetic Resonance Imaging Anatomy & Pathology II | 2 |
| MRI 203 | Magnetic Resonance Imaging Instrumentation II | 2 |

| | | |
|---|---|---|
| MRI 204 | Magnetic Resonance Imaging Safety & Patient Care II | 2 |
| MRI 205 | Magnetic Resonance Imaging Physics II | 2 |
| MRI 211 | Magnetic Resonance Imaging Practicum I | 3 |
| MRI 212 | Magnetic Resonance Imaging Practicum II | 5 |
| MRI 213 | Magnetic Resonance Imaging Practicum III | 4 |
| MRI 214 | Magnetic Resonance Imaging Capstone | 3 |
| **Total Credit Hours** | | **42** |

# Academic Plan

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| MRI 101 | Magnetic Resonance Imaging Clinical Applications I | 5 | Entry into the Magnetic Resonance Imaging Program and Reading Proficiency | Gateway Course |
| MRI 102 | Magnetic Resonance Imaging Anatomy & Pathology I | 3 | Entry into the Magnetic Resonance Imaging Program and Reading Proficiency | Critical Course |
| MRI 103 | Magnetic Resonance Imaging Instrumentation I | 3 | Entry into the Magnetic Resonance Imaging Program and Reading Proficiency | |
| MRI 104 | Magnetic Resonance Imaging Safety & Patient Care I | 3 | Entry into the Magnetic Resonance Imaging Program and Reading Proficiency | Gateway Course |
| MRI 105 | Magnetic Resonance Imaging Physics I | 3 | Entry into the Magnetic Resonance Imaging Program and Reading Proficiency | Critical Course |
| | **Credit Hours** | **17** | | |
| **Spring** | | | | |
| MRI 201 | Magnetic Resonance Imaging Clinical Applications II | 2 | MRI 101 with a minimum grade of "C" and Reading Proficiency | |
| MRI 202 | Magnetic Resonance Imaging Anatomy & Pathology II | 2 | MRI 102 with a minimum grade of "C" and Reading Proficiency | |
| MRI 203 | Magnetic Resonance Imaging Instrumentation II | 2 | MRI 103 with a minimum grade of "C" and Reading Proficiency | |
| MRI 204 | Magnetic Resonance Imaging Safety & Patient Care II | 2 | MRI 104 with a minimum grade of "C" and Reading Proficiency | |
| MRI 205 | Magnetic Resonance Imaging Physics II | 2 | MRI 105 with a minimum grade of "C" and Reading Proficiency | |
| MRI 211 | Magnetic Resonance Imaging Practicum I | 3 | MRI 101, MRI 102, MRI 103, MRI 104, and MRI 105 with minimum grades of "C" and Reading Proficiency | |
| | **Credit Hours** | **13** | | |
| **Summer** | | | | |
| MRI 212 | Magnetic Resonance Imaging Practicum II | 5 | MRI 211 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **5** | | |

| | | | | |
|---|---|---|---|---|
| **Second Year** | | | | |
| **Fall** | | | | |
| MRI 213 | Magnetic Resonance Imaging Practicum III | 4 | MRI 212 with a minimum grade of "C" and Reading Proficiency | |
| MRI 214 | Magnetic Resonance Imaging Capstone | 3 | MRI 212 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **7** | | |
| | **Total Credit Hours** | **42** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Medical Assisting: CS

**Certificate of Specialization | 9 credit hours minimum**

**School of Health Professions**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

## Program Description

The Medical Assisting (MA) Certificate of Specialization prepares students to become eligible to become Certified Clinical Medical Assistants. Students learn to provide direct care for clients and acquire knowledge and technical skills necessary for effective communication with clients and families.

Graduates are awarded a certificate in Medical Assisting and are eligible to apply for the National Healthcareer Association (NHA) credential of "Certified Clinical Medical Assistant" (CCMA).

The didactic and clinical components of the curriculum are interrelated to provide a strong background for the student in attaining the objectives of the program and in becoming a competent practitioner. Experience is provided in a variety of agencies including hospitals, nursing homes, clinics, and home health care settings.

The Medical Assisting program is pending accreditation by the National Healthcareer Association (NHA).

Persons considering a career in patient care should have an interest in the health sciences and in working closely with people. In addition, they should be able to meet the academic demands of a program that requires a commitment of time, energy, and motivation to learn.

Admission to the program is contingent on meeting the established minimum criteria as defined in the Program Handbook. Applicants also are required to complete a health history, criminal background check, and immunization record. Applicants selected for the program are required to have a physical examination.

The NHA certification does not guarantee compliance with state-specific licensing or practice requirements. Each state has its own laws and regulations governing the practice of allied healthcare professions, which may include additional certification or licensing criteria. It is the responsibility of the individual to research and adhere to the specific regulations set forth by the appropriate state oversight body. Changes to state laws, regulations, and requirements occur frequently; therefore, individuals should regularly review official state resources to ensure compliance.

## Prerequisites

The following must be completed prior to applying for admission into the Medical Assisting, Certificate of Specialization:

- CPR Certification
- Approved enrollment to the Medical Assisting, CS program
- Reading Proficiency

NOTE: Check program handbook for additional requirements such as criminal background check, drug screen, immunizations, CPR, and assessment tests.

**Locations.** This program is offered in its entirety at Florissant Valley.

**Financial Aid.** This Certificate of Specialization is not eligible for financial aid.

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. implement legal, ethical, and regulatory standards set forth by the National Healthcareer Association (NHA).
2. communicate effective verbal, non-verbal, and written communication with the multi-disciplinary health care team, clients, families, and communities across the lifespan.
3. provide client-centered care as part of a multidisciplinary health care team.
4. identify healthcare concepts and the value of life-long learning.

# Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Program Requirements** | | |
| CMA 101 | Introduction to Medical Assisting I | 4 |
| CMA 102 | Introduction to Medical Assisting II | 3 |
| CMA 103 | Special Topics in Medical Assisting | 2 |
| **Total Credit Hours** | | **9** |

# Academic Plan

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| CMA 101 | Introduction to Medical Assisting I | 4 | Enrollment in the Medical Assisting Program and Reading Proficiency | Exploratory Course, Gateway Course, First 8-weeks |
| CMA 102 | Introduction to Medical Assisting II | 3 | CMA 101 with a minimum grade of "C" and Reading Proficiency | Corequisite: CMA 102; Second 8-weeks |
| CMA 103 | Special Topics in Medical Assisting | 2 | CMA 101 with a minimum grade of "C" and Reading Proficiency | Corequisite: CMA 102; Second 8-weeks |
| | **Credit Hours** | **9** | | |
| | **Total Credit Hours** | **9** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Network Security Engineering: AAS

**Associate in Applied Science | 60 credit hours minimum**

**School of Business and Computer Information Technology**

**Program Website (https://stlcc.edu/pathways/stem/network-security-engineering/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

The Associate in Applied Science degree in Network Security Engineering is a skill-oriented program that prepares students to design, implement, troubleshoot, maintain, and secure enterprise networks. Foundation principles of local, wide-area, and multi-segmented networks lead to a mastery of skills associated with support of enterprise level networks including network and application servers, desktop hosts, infrastructure cabling, and connection devices such as switches and routers (including wireless), security appliances, virtualization of resources for performance optimization, and operating policies. The courses in the program provide a combination of theoretical and hands-on skills development. The demonstration of hands-on knowledge and skills is vital for employment in the IT networking and security industry. Students completing the program are prepared for a variety of industry certification exams as well as entry-level employment.

**Locations.** This program is offered in its entirety at Forest Park.

**Related Programs.** The Computer and Information Technology Department offers certificates in the following areas:

- **Cisco Networking: CCNA, Certificate of Specialization (p. 135)**
- **CompTIA A+ Certificate, Certificate of Specialization (p. 144)**
- **CompTIA A+ and Security+ Certifications, Certificate of Specialization (p. 146)**
- **IT Help Desk/End User Support, Certificate of Specialization (p. 285)**
- **Network Security Engineering, Certificate of Proficiency (p. 313)**

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program “St. Louis Community College” and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. employ the command line interface (CLI) to implement, troubleshoot, maintain, and secure an enterprise network.
2. develop a company-wide security solution or a security plan that follows industry best practices as a member of a team.
3. use network methodologies to implement a secure Local Area Network (LAN) network.
4. describe the proper implementation and use of Virtual Local Area Networks (VLANs), trunks, Etherchannel, Spanning Tree Protocol (STP), routing, and First Hop Redundancy Protocols (FHRP).
5. explain the network layered models and the use of global, local, and internal network addressing.

6. explain how to initiate, monitor, and secure data as it is traveling across the network.
7. deploy network security by configuring and monitoring defensive measures to protect the network.

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **General Education** | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 |
| ENG 103 | Report Writing (MOTR ENGL 110) | 3 |
| or ENG 102 | College Composition II (MOTR ENGL 200) | |
| **Select one of the following math courses:** | | **3** |
| MTH 161 | Quantitative Reasoning (MOTR MATH 120) (or MTH 161S) (Recommended) | |
| MTH 180 | Introductory Statistics (MOTR MATH 110) (or MTH 180S) | |
| MTH 160 | Precalculus Algebra (MOTR MATH 130) (or MTH 160S) (or higher) | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 |
| XXX xxx | MOTR Elective: Natural Science/Math (MOTR Requirement) (p. 416) | 3 |
| **Program Requirements** | | |
| IS 229 | Unix/Linux I | 3 |
| IS 264 | Unix/Linux II | 3 |
| IS 237 | Fundamentals of Information Assurance/Security - CompTIA Security+ | 3 |
| IS 280 | Python | 3 |
| IT 100 | Introduction to Cybersecurity | 1 |
| IT 120 | Enterprise Security Management | 3 |
| IT 121 | Secure E-Commerce | 3 |
| IT 101 | Cisco Networking Academy I: Introduction to Networks | 5 |
| IT 201 | Cisco Networking Academy II: Switching, Routing, and Wireless Essentials | 5 |
| IT 202 | Cisco Networking Academy III: Enterprise Networking, Security, and Automation | 5 |
| Select One (5 credits): | | 5 |
| IT 208 | Cisco Networking Academy: CCNA Security | |
| IT 250 | Cisco Networking Academy: CCCA Cybersecurity Operations | |
| Select 2 of the Following Electives (6 credits minimum): | | 6 |
| IS 130 | Hardware Support - CompTIA A+ Core 1 (Hardware) | |
| IT 102 | Desktop Software Support - CompTIA A+ Core 2 (Software) | |
| IT 211 | Introduction to Virtualization and Cloud Computing | |
| IT 212 | Ethical Hacking | |
| IT 215 | Cloud Security | |
| IT 216 | Digital Forensics | |
| IT 251 | | |
| **Total Credit Hours** | | **60** |

# Full-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| IT 100 | Introduction to Cybersecurity | 1 | Reading Proficiency | Offered Fall and Spring. Exploratory Course. |
| IS 229 | Unix/Linux I | 3 | Reading Proficiency | Offered Fall, Spring, and Summer. Gateway Course, Critical Course. |
| Select one of the following: | | 3 | | MTH 161 is highly recommended. |
| MTH 161 | Quantitative Reasoning (MOTR MATH 120) | | Satisfactory score on placement test and Reading Proficiency | |
| MTH 180 | Introductory Statistics (MOTR MATH 110) | | Satisfactory scores on placement test, and Reading Proficiency | |
| MTH 160 | Precalculus Algebra (MOTR MATH 130) (or higher) | | MTH 140 (or MTH 140S) with a minimum grade of "C" or satisfactory score on placement test, and Reading Proficiency | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| Choose one of the following: | | 3 | | Recommended: MTH 160, CHM 123, or BIO 109 |
| XXX xxx | MOTR Mathematics Elective (p. 416) | | | |
| XXX xxx | MOTR Natural Sciences Elective (p. 416) | | | |
| | **Credit Hours** | **13** | | |
| **Spring** | | | | |
| IS 237 | Fundamentals of Information Assurance/Security - CompTIA Security + | 3 | IT 102 or IS 229 with a minimum grade of "C" and Reading Proficiency | Offered Fall, Spring, and Summer |
| ENG 102<br>or 103 | College Composition II (MOTR ENGL 200)<br>or Report Writing (MOTR ENGL 110) | 3 | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| IT 101 | Cisco Networking Academy I: Introduction to Networks | 5 | Reading Proficiency | 1st 8 weeks. Offered Fall, Spring, and Summer. Gateway Course, Critical Course. |
| IT 201 | Cisco Networking Academy II: Switching, Routing, and Wireless Essentials | 5 | IT 101 with a minimum grade of "C", and Reading Proficiency | 2nd 8 weeks. Offered Fall, Spring, and Summer. |
| | **Credit Hours** | **16** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| IT 202 | Cisco Networking Academy III: Enterprise Networking, Security, and Automation | 5 | IT 201 with a minimum grade of "C", and Reading Proficiency | 1st 8 weeks. Offered Fall and Spring. |
| Choose one of the following: | | 5 | | 2nd 8 weeks. One of the two courses is offered Fall and Spring. |

| | | | | |
|---|---|---|---|---|
| IT 208 | Cisco Networking Academy: CCNA Security | | IT 201 with a minimum grade of "C" or a Cisco CCENT or CCNA certification and Reading Proficiency | |
| IT 250 | Cisco Networking Academy: CCCA Cybersecurity Operations | | IT 101 with a minimum grade of "C" and Reading Proficiency | |
| IS 264 | Unix/Linux II | 3 | IS 229 with a minimum grade of "C" and Reading Proficiency | Offered Fall and Spring |
| XXX xxx | Program Elective | 3 | | Recommendations: IT 212 Ethical Hacking, IT 216 Digital Forensics, IS 130 Hardware Support - CompTIA A + Core 1 (Hardware), IT 102 Desktop Software Support - CompTIA A+ Core 2 (Software) |
| | **Credit Hours** | **16** | | |
| **Spring** | | | | |
| IT 121 | Secure E-Commerce | 3 | IS 229 and IS 237, both with a minimum grade of "C" and Reading Proficiency | Offered Spring and Summer |
| IT 120 | Enterprise Security Management | 3 | IS 237 with a minimum grade of "C" and Reading Proficiency | Offered Spring only |
| XXX xxx | Program Elective | 3 | | Recommendations: IT 212 Ethical Hacking, IT 216 Digital Forensics, IS 130 Hardware Support - CompTIA A + Core 1 (Hardware), IT 102 Desktop Software Support - CompTIA A+ Core 2 (Software) |
| IS 280 | Python | 3 | Reading Proficiency | Offered Fall and Spring |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | |
| | **Credit Hours** | **15** | | |
| | **Total Credit Hours** | **60** | | |

## Program Electives-Select two of the following (6 credits minimum):

| Code | Title | Credit Hours |
|---|---|---|
| IS 130 | Hardware Support - CompTIA A+ Core 1 (Hardware) | 3 |
| IT 102 | Desktop Software Support - CompTIA A+ Core 2 (Software) | 3 |
| IT 211 | Introduction to Virtualization and Cloud Computing | 3 |
| IT 212 | Ethical Hacking | 3 |
| IT 215 | Cloud Security | 3 |
| IT 216 | Digital Forensics | 3 |
| IT 251 | | 5 |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Part-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| IT 100 | Introduction to Cybersecurity | 1 | Reading Proficiency | Offered Fall and Spring. Exploratory Course. |
| IS 229 | Unix/Linux I | 3 | Reading Proficiency | Offered Fall, Spring, and Summer. Gateway Course, Critical Course. |
| Select one of the following: | | 3 | | MTH 161 is highly recommended. |
| MTH 161 | Quantitative Reasoning (MOTR MATH 120) | | Satisfactory score on placement test and Reading Proficiency | |
| MTH 180 | Introductory Statistics (MOTR MATH 110) | | Satisfactory scores on placement test, and Reading Proficiency | |
| MTH 160 | Precalculus Algebra (MOTR MATH 130) (or higher) | | MTH 140 (or MTH 140S) with a minimum grade of "C" or satisfactory score on placement test, and Reading Proficiency | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| | **Credit Hours** | **10** | | |
| **Spring** | | | | |
| IT 101 | Cisco Networking Academy I: Introduction to Networks | 5 | Reading Proficiency | 1st 8 weeks. Offered Fall, Spring, and Summer. Gateway Course, Critical Course. |
| IT 201 | Cisco Networking Academy II: Switching, Routing, and Wireless Essentials | 5 | IT 101 with a minimum grade of "C", and Reading Proficiency | 2nd 8 weeks. Offered Fall, Spring, and Summer. |
| | **Credit Hours** | **10** | | |
| **Summer** | | | | |
| IS 237 | Fundamentals of Information Assurance/Security - CompTIA Security + | 3 | IT 102 or IS 229 with a minimum grade of "C" and Reading Proficiency | Offered Fall, Spring, and Summer |
| ENG 102<br>or 103 | College Composition II (MOTR ENGL 200)<br>or Report Writing (MOTR ENGL 110) | 3 | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **6** | | |

| | | | | |
|---|---|---|---|---|
| **Second Year** | | | | |
| **Fall** | | | | |
| IT 202 | Cisco Networking Academy III: Enterprise Networking, Security, and Automation | 5 | IT 201 with a minimum grade of "C", and Reading Proficiency | 1st 8 weeks. Offered Fall and Spring. |
| Choose one of the following: | | 5 | | 2nd 8 weeks. One of the two courses is offered Fall and Spring. |
| IT 208 | Cisco Networking Academy: CCNA Security | | IT 201 with a minimum grade of "C" or a Cisco CCENT or CCNA certification and Reading Proficiency | |
| IT 250 | Cisco Networking Academy: CCCA Cybersecurity Operations | | IT 101 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **10** | | |
| **Spring** | | | | |
| IT 121 | Secure E-Commerce | 3 | IS 229 and IS 237, both with a minimum grade of "C" and Reading Proficiency | Offered Spring and Summer |
| IS 264 | Unix/Linux II | 3 | IS 229 with a minimum grade of "C" and Reading Proficiency | Offered Fall and Spring |
| XXX xxx | MOTR Natural Sciences or MathematicsElective | 3 | | Recommended: MTH 160, CHM 123, or BIO 109 |
| | **Credit Hours** | **9** | | |
| **Summer** | | | | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | |
| | **Credit Hours** | **3** | | |
| **Third Year** | | | | |
| **Fall** | | | | |
| IS 280 | Python | 3 | Reading Proficiency | Offered Fall and Spring |
| XXX xxx | Program Elective | 3 | | Recommendations: IT 212 Ethical Hacking, IT 216 Digital Forensics, IS 130 Hardware Support - CompTIA A + Core 1 (Hardware), IT 102 Desktop Software Support - CompTIA A+ Core 2 (Software) |
| | **Credit Hours** | **6** | | |
| **Spring** | | | | |
| IT 120 | Enterprise Security Management | 3 | IS 237 with a minimum grade of "C" and Reading Proficiency | Offered Spring Only |
| XXX xxx | Program Elective | 3 | | Recommendations: IT 212 Ethical Hacking, IT 216 Digital Forensics, IS 130 Hardware Support - CompTIA A + Core 1 (Hardware), IT 102 Desktop Software Support - CompTIA A+ Core 2 (Software) |
| | **Credit Hours** | **6** | | |
| | **Total Credit Hours** | **60** | | |

### Program Electives-Select two of the following (6 credits minimum):

| Code | Title | Credit Hours |
|---|---|---|
| IS 130 | Hardware Support - CompTIA A+ Core 1 (Hardware) | 3 |
| IT 102 | Desktop Software Support - CompTIA A+ Core 2 (Software) | 3 |
| IT 211 | Introduction to Virtualization and Cloud Computing | 3 |
| IT 212 | Ethical Hacking | 3 |
| IT 215 | Cloud Security | 3 |
| IT 216 | Digital Forensics | 3 |
| IT 251 | | 5 |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Articulation Agreements

Articulation agreements are formal partnerships between St. Louis Community College and colleges or universities that outline how completed coursework transfers toward a specific degree program. These agreements help students continue their education by ensuring the credits earned at STLCC apply toward bachelor's degree requirements at the partner institution. STLCC continually collaborates with colleges and universities to establish new agreements that support a smooth transfer process.

Below is a list of current partner institutions with active articulation agreements for the Associate in Applied Science - Network Security Engineering. Some programs include links to academic plans. If a program does not have a linked plan available, students should meet with an academic advisor to obtain the appropriate plan and guidance.

## Webster University

- Computer Science with an Emphasis in Network Engineering, Bachelor of Science

# Network Security Engineering: CP

**Certificate of Proficiency | 36 credit hours minimum**

**School of Business and Computer Information Technology**

**Program Website (https://stlcc.edu/pathways/stem/network-security-engineering/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

Network Security Engineering Certificate of Proficiency is a skill-oriented program that prepares students to design, implement, troubleshoot, maintain, and secure enterprise network infrastructure. It starts with the foundation principles of local and wide-area, multi-segmented networks, and then covers a wide range of skills associated with all aspects of enterprise level networks for business. The design and implementation skills developed include those required for network and application servers, desktop hosts, infrastructure cabling and connection devices such as switches and routers (including wireless), security appliances, and virtualization of resources for performance optimization. The courses in the program provide a combination of online, distance learning, and intensive, classroom-based, hands-on skills development. The demonstration of hands-on skills is critical to employers. Students completing the program are prepared for a variety of industry certification exams as well as entry-level employment technical interviews.

**Location.** This program is offered in its entirety at Forest Park.

**Related Programs.** The Computer and Information Technology Department offers an associate and certificates in the following areas:

- **Cisco Networking Academy: CCNA, Certificate of Specialization (p. 135)**
- **CompTIA A+ Certification, Certificate of Specialization (p. 144)**
- **CompTIA A+ and Security+ Certifications, Certificate of Specialization (p. 146)**
- **IT Help Desk/End User Support, Certificate of Specialization (p. 285)**
- **Network Security Engineering, Associate in Applied Science (p. 307)**

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. employ the command line interface (CLI) to implement, troubleshoot, maintain, and secure an enterprise network.
2. use network methodologies to implement a secure Local Area Network (LAN) network.
3. describe the proper implementation and use of Virtual Local Area Networks (VLANs), trunks, Etherchannel, Spanning Tree Protocol (STP), routing, and First Hop Redundancy Protocols (FHRP).
4. explain the network layered models and the use of global, local, and internal network addressing.
5. explain how to initiate, monitor, and secure data as it is traveling across the network.

Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Program Requirements** | | |
| IS 229 | Unix/Linux I | 3 |
| IS 237 | Fundamentals of Information Assurance/Security - CompTIA Security+ | 3 |
| IS 280 | Python | 3 |
| IT 100 | Introduction to Cybersecurity | 1 |
| IT 101 | Cisco Networking Academy I: Introduction to Networks | 5 |
| IT 201 | Cisco Networking Academy II: Switching, Routing, and Wireless Essentials | 5 |
| IT 202 | Cisco Networking Academy III: Enterprise Networking, Security, and Automation | 5 |
| Select 1 (5 credits) | | 5 |
| IT 208 | Cisco Networking Academy: CCNA Security | |
| IT 250 | Cisco Networking Academy: CCCA Cybersecurity Operations | |
| Select 2 of the Following Electives (6 credits minimum) | | 6 |
| IS 130 | Hardware Support - CompTIA A+ Core 1 (Hardware) | |
| IS 264 | Unix/Linux II | |
| IT 102 | Desktop Software Support - CompTIA A+ Core 2 (Software) | |
| IT 120 | Enterprise Security Management | |
| IT 121 | Secure E-Commerce | |
| IT 211 | Introduction to Virtualization and Cloud Computing | |
| IT 212 | Ethical Hacking | |
| IT 215 | Cloud Security | |
| IT 216 | Digital Forensics | |
| IT 251 | | |
| **Total Credit Hours** | | **36** |

# Full-Time Academic Plan

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| IT 100 | Introduction to Cybersecurity | 1 | Reading Proficiency | Offered Fall and Spring. Exploratory Course. |
| IS 229 | Unix/Linux I | 3 | Reading Proficiency | Offered Fall, Spring, and Summer. Gateway Course, Critical Course. |
| IT 101 | Cisco Networking Academy I: Introduction to Networks | 5 | Reading Proficiency | 1st 8 weeks. Offered Fall, Spring, and Summer. Gateway Course, Critical Course. |
| IT 201 | Cisco Networking Academy II: Switching, Routing, and Wireless Essentials | 5 | IT 101 with a minimum grade of "C", and Reading Proficiency | 2nd 8 weeks. Offered Fall, Spring, and Summer. |
| | **Credit Hours** | **14** | | |
| **Spring** | | | | |
| IS 237 | Fundamentals of Information Assurance/Security - CompTIA Security + | 3 | IT 102 or IS 229 with a minimum grade of "C" and Reading Proficiency | Offered Fall, Spring, and Summer |
| IT 202 | Cisco Networking Academy III: Enterprise Networking, Security, and Automation | 5 | IT 201 with a minimum grade of "C", and Reading Proficiency | 1st 8 weeks. Offered Fall and Spring. |
| Choose one of the following: | | 5 | | 2nd 8 weeks. One of the two classes is offered Fall and Spring. |
| IT 208 | Cisco Networking Academy: CCNA Security | | IT 201 with a minimum grade of "C" or a Cisco CCENT or CCNA certification and Reading Proficiency | |
| IT 250 | Cisco Networking Academy: CCCA Cybersecurity Operations | | IT 101 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **13** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| XXX xxx | Program Elective | 3 | | Recommendations: IS 264 Unix/ Linux II, IT 120 Enterprise Security Management, IT 212 Ethical Hacking, IT 216 Digital Forensics, IT 121 Secure E-Commerce |
| XXX xxx | Program Elective | 3 | | Recommendations: IS 264 Unix/ Linux II, IT 120 Enterprise Security Management, IT 212 Ethical Hacking, IT 216 Digital Forensics, IT 121 Secure E-Commerce |
| IS 280 | Python | 3 | Reading Proficiency | Offered Fall and Spring |
| | **Credit Hours** | **9** | | |
| | **Total Credit Hours** | **36** | | |

# Program Electives

| Code | Title | Credit Hours |
|---|---|---|
| IS 130 | Hardware Support - CompTIA A+ Core 1 (Hardware) | 3 |
| IS 264 | Unix/Linux II | 3 |
| IT 102 | Desktop Software Support - CompTIA A+ Core 2 (Software) | 3 |
| IT 120 | Enterprise Security Management | 3 |
| IT 121 | Secure E-Commerce | 3 |
| IT 211 | Introduction to Virtualization and Cloud Computing | 3 |
| IT 212 | Ethical Hacking | 3 |
| IT 215 | Cloud Security | 3 |
| IT 216 | Digital Forensics | 3 |
| IT 251 | | 5 |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Part-Time Academic Plan

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| IT 100 | Introduction to Cybersecurity | 1 | Reading Proficiency | Offered Fall and Spring. Exploratory Course. |
| IS 229 | Unix/Linux I | 3 | Reading Proficiency | Offered Fall, Spring, and Summer. Gateway Course, Critical Course. |
| IS 280 | Python | 3 | Reading Proficiency | Offered Fall and Spring |
| | **Credit Hours** | **7** | | |
| **Spring** | | | | |
| IT 101 | Cisco Networking Academy I: Introduction to Networks | 5 | Reading Proficiency | 1st 8 weeks. Offered Fall, Spring, and Summer. Gateway Course, Critical Course. |
| IT 201 | Cisco Networking Academy II: Switching, Routing, and Wireless Essentials | 5 | IT 101 with a minimum grade of "C", and Reading Proficiency | 2nd 8 weeks. Offered Fall, Spring, and Summer. |
| | **Credit Hours** | **10** | | |

| | | | | |
|---|---|---|---|---|
| **Summer** | | | | |
| IS 237 | Fundamentals of Information Assurance/Security - CompTIA Security + | 3 | IT 102 or IS 229 with a minimum grade of "C" and Reading Proficiency | Offered Fall, Spring, and Summer |
| | **Credit Hours** | **3** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| IT 202 | Cisco Networking Academy III: Enterprise Networking, Security, and Automation | 5 | IT 201 with a minimum grade of "C", and Reading Proficiency | 1st 8 weeks. Offered Fall and Spring. |
| Choose one of the following: | | 5 | | 2nd 8 weeks. One of the two courses is offered Fall and Spring. |
| IT 208 | Cisco Networking Academy: CCNA Security | | IT 201 with a minimum grade of "C" or a Cisco CCENT or CCNA certification and Reading Proficiency | |
| IT 250 | Cisco Networking Academy: CCCA Cybersecurity Operations | | IT 101 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **10** | | |
| **Spring** | | | | |
| XXX xxx | Program Elective | 3 | | Recommendations: IS 264 Unix/ Linux II, IT 120 Enterprise Security Management, IT 212 Ethical Hacking, IT 216 Digital Forensics, IT 121 Secure E-Commerce |
| XXX xxx | Program Elective | 3 | | Recommendations: IS 264 Unix/ Linux II, IT 120 Enterprise Security Management, IT 212 Ethical Hacking, IT 216 Digital Forensics, IT 121 Secure E-Commerce |
| | **Credit Hours** | **6** | | |
| | **Total Credit Hours** | **36** | | |

## Program Electives

| Code | Title | Credit Hours |
|---|---|---|
| IS 130 | Hardware Support - CompTIA A+ Core 1 (Hardware) | 3 |
| IS 264 | Unix/Linux II | 3 |
| IT 102 | Desktop Software Support - CompTIA A+ Core 2 (Software) | 3 |
| IT 120 | Enterprise Security Management | 3 |
| IT 121 | Secure E-Commerce | 3 |
| IT 211 | Introduction to Virtualization and Cloud Computing | 3 |
| IT 212 | Ethical Hacking | 3 |
| IT 215 | Cloud Security | 3 |
| IT 216 | Digital Forensics | 3 |
| IT 251 | | 5 |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Nursing: AAS

**Associate in Applied Science | 66 credit hours minimum**

**School of Health Professions**

**Program Website (https://stlcc.edu/programs-academics/pathways/health-professions/nursing/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

The Associate in Applied Science degree in Nursing prepares students to become registered nurses. Students learn to provide direct care for clients that is based on the nursing process. Students acquire knowledge and technical skills necessary for effective communication with clients and families. They learn management, organizational, and delegation skills necessary to provide competent care to a group of clients. Health care teaching is emphasized as a critical aspect of the communication process.

The didactic and clinical components of the curriculum are interrelated to provide a strong background for the student in attaining the objectives of the program and in becoming a competent practitioner. Experience is provided in a variety of agencies including hospitals, nursing homes, clinics, and home health care settings.

The Nursing program on each campus is approved by the Missouri State Board of Nursing and accredited by the Accreditation Commission for Education in Nursing (ACEN).

Persons considering a career in nursing should have an interest in the health sciences and in working closely with people. In addition, they should be able to meet the academic demands of a program that requires a commitment of time, energy, and motivation to learn.

Admission to the program is contingent on meeting the established minimum criteria as defined in the Nursing Program Handbook. Applicants also are required to complete a health history, criminal background check, and immunization record. Applicants selected for the program are required to have a physical examination.

Graduates are eligible to apply and sit for the National Council Licensure Examination for Registered Nurses.

The nursing program has an LPN Bridge Option (NUR 160) for students selecting this career path. Please see an academic advisor for additional information.

An individual who has been convicted of a felony may not be licensed to practice as a registered nurse in the state of Missouri.

## Prerequisites

The following must be completed prior to applying for admission into the Nursing program:

- Cumulative GPA of 2.5 or higher on a 4.0 scale.
- Test of Essential Academic Skills (TEAS) exam completed with a minimum composite score of 58.7%. Additional information:
  - Minimum of 30 days between attempts in taking the TEAS exam and a maximum of three attempts in a 12-month period.
  - TEAS exam can be completed in an STLCC testing center.
  - Additional information and study guides can be found at www.atitesting.com (https://www.atitesting.com).
- Pre-entry:

| Code | Title | Credit Hours |
|---|---|---|
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 |
| COM 200 | Communication Between Cultures (MOTR SBSC 101) | 3 |
| or SOC 101 | Introduction to Sociology (MOTR SOCI 101) | |
| Math proficiency at or above the MTH 140 level. Please note: MTH 165 and MTH 166 will not meet the math requirement for the nursing program. | | |
| Biology: Students are required to have completed one semester of college biology with lab (STLCC BIO 111 or higher) with "C" grade or higher within 5 years of applying to the nursing program. | | |
| Chemistry: Students are required to have completed two semesters of high school chemistry with lab or one semester of college chemistry with lab (STLCC CHM 101 or higher) with "C" grade or higher within 5 years of applying to the nursing program. | | |

| | | |
|---|---|---|
| BIO 207 | Anatomy and Physiology I (MOTR LIFS 150LAP) | 4 |
| PSY 200 | General Psychology (MOTR PSYC 100) | 3 |

NOTE: Check nursing program handbook for additional requirements such as criminal background check, drug screen, immunizations, CPR, and assessment tests.

**Locations.** This program is offered in its entirety at Florissant Valley, Forest Park, Meramec, and Wildwood.

**Licensure.** This program meets the educational requirements for state licensure in the following states: Missouri and Illinois. Students interested in pursuing licensure in a different state should contact the program coordinator for more information.

**Related Programs.** The Nursing Department also offers an associate in the following area:

Practical Nursing, Certificate of Proficiency (p. 353)

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. demonstrate the standards of professional practice as identified by the American Nurses Association Code of Ethics.
2. demonstrate effective verbal, non-verbal, and written communication with individuals, families, groups, and communities across the lifespan.
3. implement strategies to promote teaching and learning across the lifespan that facilitate health promotion and maintenance, and reduction of risks specific to individuals, families, and communities.
4. implement safe clinical decision-making skills using evidence-based practice and the nursing process to deliver safe nursing care for patients, families, groups, and communities across the lifespan.
5. deliver patient-centered care across the lifespan through collaboration with healthcare team members by demonstrating leadership skills in the clinical setting.

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Pre-entry Requirements:** | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 |
| COM 200 | Communication Between Cultures (MOTR SBSC 101) | 3 |
| or SOC 101 | Introduction to Sociology (MOTR SOCI 101) | |
| Chemistry: Students are required to have completed two semesters of high school chemistry with lab or one semester of college chemistry with lab (STLCC CHM 101 or higher) with "C" grade or higher within 5 years of applying to the nursing program. | | 0-5 |
| Math proficiency at or above the MTH 140 level. Please note: MTH 165 and MTH 166 will not meet the math requirement for the nursing program. | | 0-3 |
| Biology: Students are required to have completed one semester of college biology with lab (STLCC BIO 111 or higher) with "C" grade or higher within 5 years of applying to the nursing program. | | 0-4 |
| BIO 207 | Anatomy and Physiology I (MOTR LIFS 150LAP) | 4 |
| PSY 200 | General Psychology (MOTR PSYC 100) | 3 |
| **General Education** | | |
| PSY 205 | Human Growth and Development (MOTR PSYC 200) | 3 |
| BIO 203 | General Microbiology I | 4 |
| BIO 208 | Anatomy and Physiology II | 4 |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 |
| **Program Requirements** | | |

| | | |
|---|---|---|
| NUR 151 | Fundamentals of Nursing | 7 |
| NUR 152 | Nursing Laboratory Practicum I | 1 |
| NUR 154 | Nursing Laboratory Practicum II | 1 |
| NUR 153 | Nursing of Adults and Children I | 9 |
| NUR 251 | Nursing of Adults and Children II | 10 |
| NUR 253 | Management Skills in Nursing | 3 |
| NUR 252 | Nursing of Adults and Children III | 8 |
| **Total Credit Hours** | | **66-78** |

# Academic Retention Policies

The Nursing Program is an intensive and highly structured academic and clinical experience for students. It is not self-contained but affects the staff and patients of the cooperating agencies where the clinical experiences of the program are carried out. The Nursing Program at St. Louis Community College share a serious responsibility toward those agencies and their staffs and patients to send forward only nursing students who are adequately prepared to perform assigned tasks with competence. For these reasons, students within the Nursing Program at St. Louis Community College must maintain standards and procedures appropriately. Requirements to remain within the Nursing Program are as follows:

1. A cumulative grade point average (GPA) of 2.0 is required. A grade of "C" or higher is required in all nursing courses as well as in all other courses required for the Nursing Program. All other required courses must be completed with a grade of "C" or higher prior to or during the semester the course is scheduled in the curriculum.

2. A student who fails to maintain a cumulative GPA of 2.0, receives a grade of less than "C" in any courses required for the nursing degree, or who does not return to a nursing course when expected, will not be eligible to continue in the nursing program. This may result in a loss of the nursing major for the student. The student may apply for readmission to the program following the appeal process.

3. A student-initiated withdrawal from a nursing course counts as one attempt per withdrawal (for any reason). If the student has withdrawn or been unsuccessful in any nursing course twice, any future attempts must be approved by the District Readmission Appeals Committee. This process may be initiated by a campus program coordinator.

4. All clinical compliance items must be current to continue with the program and attend clinicals.

# Additional Information

**Nursing Program Admission Assessments FAQs (https://stlcc.edu/pathways/health/nursing/admission-faqs/)**

**Nursing Program Admission Requirement Checklist (https://stlcc.edu/pathways/health/nursing/rn-associate/requirements-checklist.aspx)**

**Please refer to the program website for Program Handbook and Technical Standards.**

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

## Pre-Nursing Requirements

(prior to enrolling in NUR 151)

| Code | Title | Credit Hours |
|---|---|---|
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 |
| COM 200 | Communication Between Cultures (MOTR SBSC 101) | 3 |
| or SOC 101 | Introduction to Sociology (MOTR SOCI 101) | |
| Chemistry: Students are required to have completed two semesters of high school chemistry with lab or one semester of college chemistry with lab (STLCC CHM 101 or higher) with "C" grade or higher within 5 years of applying to the nursing program. | | 0-5 |
| Math proficiency at or above the MTH 140 level. Please note: MTH 165 and MTH 166 will not meet the math requirement for the nursing program. | | 0-3 |
| Biology: Students are required to have completed one semester of college biology with lab (STLCC BIO 111 or higher) with "C" grade or higher within 5 years of applying to the nursing program. | | 0-4 |
| BIO 207 | Anatomy and Physiology I (MOTR LIFS 150LAP) | 4 |

| | | |
|---|---|---|
| PSY 200 | General Psychology (MOTR PSYC 100) | 3 |
| **Total Credit Hours** | | **13-25** |

## Nursing Program Academic Plan

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| NUR 151 | Fundamentals of Nursing | 7 | Enrollment in the Nursing Program and Reading Proficiency | Gateway Course and Critical Course |
| NUR 152 | Nursing Laboratory Practicum I | 1 | Enrollment in the Nursing Program and Reading Proficiency | Gateway Course and Critical Course |
| BIO 208 | Anatomy and Physiology II | 4 | BIO 207 with a minimum grade of "C" and Reading Proficiency | |
| PSY 205 | Human Growth and Development (MOTR PSYC 200) | 3 | PSY 200 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| NUR 153 | Nursing of Adults and Children I | 9 | BIO 208, NUR 151, PSY 205 all with grades of "C" or better and Reading Proficiency | |
| NUR 154 | Nursing Laboratory Practicum II | 1 | NUR 151 with a minimum grade of "C", NUR 152 with a grade of "S", and Reading Proficiency | |
| BIO 203 | General Microbiology I | 4 | BIO 111 or BIO 140 with a minimum grade of "C", or college-level course equivalent, and Reading Proficiency | |
| | **Credit Hours** | **14** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| NUR 251 | Nursing of Adults and Children II | 10 | NUR 153 or NUR 160 with grades of "C" or better, and BIO 203 with a grade of "C" or better and Reading Proficiency | |
| | **Credit Hours** | **10** | | |
| **Spring** | | | | |
| NUR 252 | Nursing of Adults and Children III | 8 | NUR 251 with a grade of "C" or better and Reading Proficiency | Apply for graduation. |
| NUR 253 | Management Skills in Nursing | 3 | NUR 251 with a grade of "C" or better and Reading Proficiency | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | |
| | **Credit Hours** | **14** | | |
| | **Total Credit Hours** | **53** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Articulation Agreements

Articulation agreements are formal partnerships between St. Louis Community College and colleges or universities that outline how completed coursework transfers toward a specific degree program. These agreements help students continue their education by ensuring the credits earned at STLCC apply toward bachelor's degree requirements at the partner institution. STLCC continually collaborates with colleges and universities to establish new agreements that support a smooth transfer process.

Below is a list of current partner institutions with active articulation agreements for the Associate in Applied Science - Nursing. Some programs include links to academic plans. If a program does not have a linked plan available, students should meet with an academic advisor to obtain the appropriate plan and guidance.

## Central Methodist University

- Nursing, Bachelor of Science in Nursing

## McKendree University

- Nursing, Bachelor of Science in Nursing

## Southern Illinois University - Edwardsville

- **Nursing, Bachelor of Science in Nursing (https://catalog.stlcc.edu/programs/signed-articulation-agreements/siue-nursing/)**

## University of Missouri - Columbia

- Nursing, Bachelor of Science in Nursing

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

# Pre-Nursing Requirements

| Code | Title | Credit Hours |
|---|---|---|
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 |
| COM 200 | Communication Between Cultures (MOTR SBSC 101) | 3 |
| or SOC 101 | Introduction to Sociology (MOTR SOCI 101) | |
| Chemistry: Students are required to have completed two semesters of high school chemistry with lab or one semester of college chemistry with lab (STLCC CHM 101 or higher) with "C" grade or higher within 5 years of applying to the nursing program. | | 0-5 |
| Math proficiency at or above the MTH 140 level. Please note: MTH 165 and MTH 166 will not meet the math requirement for the nursing program. | | 0-3 |
| Biology: Students are required to have completed one semester of college biology with lab (STLCC BIO 111 or higher) with "C" grade or higher within 5 years of applying to the nursing program. | | 0-4 |
| BIO 207 | Anatomy and Physiology I (MOTR LIFS 150LAP) | 4 |
| BIO 208 | Anatomy and Physiology II | 4 |
| BIO 203 | General Microbiology I | 4 |
| PSY 200 | General Psychology (MOTR PSYC 100) | 3 |
| PSY 205 | Human Growth and Development (MOTR PSYC 200) | 3 |
| **Total Credit Hours** | | **24-36** |

# Nursing Program Academic Plan

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| NUR 170 | LPN/Paramedic to RN Bridge Course | 7 | Enrollment in the Nursing Program and Reading Proficiency | Gateway and Critical course. Upon successful completion of this course, students will earn 11 hours of credit for prior learning for NUR 161. |
| | **Credit Hours** | **7** | | |
| **Spring** | | | | |
| NUR 251 | Nursing of Adults and Children II | 10 | NUR 153 or NUR 160 with grades of "C" or better, and BIO 203 with a grade of "C" or better and Reading Proficiency | |
| | **Credit Hours** | **10** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| NUR 252 | Nursing of Adults and Children III | 8 | NUR 251 with a grade of "C" or better and Reading Proficiency | Apply for graduation. |
| NUR 253 | Management Skills in Nursing | 3 | NUR 251 with a grade of "C" or better and Reading Proficiency | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | |
| | **Credit Hours** | **14** | | |
| | **Total Credit Hours** | **31** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Occupational Therapy Assistant: AAS

**Associate in Applied Science | 73 credit hours minimum**

**School of Health Professions**

**Program Website (https://stlcc.edu/programs-academics/pathways/health-professions/occupational-therapy-assistant/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

The Occupational Therapy Assistant Program, Associate in Applied Science, prepares students for positions as occupational therapy practitioners who work under the supervision of registered occupational therapists. Through courses in the development, structure, and function of the human body, psychology, and

occupational therapy principles and techniques, along with clinical experience, students learn skills in communicating, interviewing, assessing, intervention planning, and implementation of interventions for consumers of occupational therapy services.

The Occupational Therapy Assistant Program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE)

7501 Wisconsin Avenue, Suite 510E
Bethesda, MD 20814
Telephone: 301-652-6611 or Website: **www.acoteonline.org (https://acoteonline.org/)**

Graduates of the program will be able to sit for the national certification examination for the occupational therapy assistant administered by the National Board for Certification in Occupational Therapy (NBCOT). After successful completion of this exam, the individual will be a Certified Occupational Therapy Assistant (COTA). All states require licensure in order to practice; however, the acquisition of state licenses is typically based on the results of the NBCOT Certification Examination. Please be aware that a felony conviction could impact a student's ability to participate in fieldwork experiences, ability to take the certification exam, and/or obtain a license to practice occupational therapy. See OTA Program Director for more information.

Note: All OTA students must complete Level II Fieldwork within 18 months following completion of academic coursework.

The OTA program is a selective admission, college-level program. Students must have successfully completed specific requirements before application, including:

- having a high school or college cumulative grade point average of 2.5
- having minimum placement test scores or successful completion of the following courses:

Math Proficiency: Complete ONE of the following before application to the program:

- Math ACT score of 19 or higher OR SAT math score of 500 or higher (within the last 3 years)
- Place into MTH 140 higher on the Accuplacer (Next Gen) (within the previous 3 years)
- Completion of courses: MTH 140 or MTH 140S or higher-level math with a “C” or higher

English Proficiency: Complete ONE of the following before application to the program:

- English ACT score of 18 or higher OR SAT EBRW score of 500 or higher (within the last 3 years)
- Accuplacer (Next Gen) score of 250 or higher (within the previous 3 years) OR high school GPA of 2.6 or higher
- Placement into ENG 101

Reading Proficiency: Complete ONE of the following before application to the program:

- Reading ACT score of 18 or higher OR SAT EBRW score of 500 or higher (within the last 3 years)
- Accuplacer (Next Gen) score of 250 or higher on the Reading Portion (within the previous 3 years)
- Demonstrate college-level reading competency.

Biology:

- A&P I (BIO 207) must be completed with a “C” or higher within the last 5 years from application to the program.
- Completion of BIO 111 or BIO 140 or CHM 101 with a minimum grade of “C” or higher

Psychology:

- General Psychology (PSY 200) must be completed with a “C” or higher within 5 years from application to the program.

**Locations.** This program is offered in its entirety at Forest Park.

**Licensure.** This program meets the educational requirements for state licensure in the following states: Missouri and Illinois. Students interested in pursuing licensure in a different state should contact the program coordinator for more information.

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program “St. Louis Community College” and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. articulate the distinct nature of occupational therapy and the roles of occupational therapy assistants within the occupational therapy process.
2. describe how participating in life's occupations promotes health and wellness and illness prevention.
3. explain how choice of occupation and participating in occupation are influenced by age, ethnicity, disease, culture, lifestyle, economic status, and physical, social, and policy environments.
4. apply awareness of self through respect, empathy, and cultural humility during the occupational therapy process.
5. contribute to the occupational therapy process through obtaining relevant client information and demonstrating competence in select assessments under the direction of an occupational therapist.
6. implement intervention strategies across the lifespan and care continuum that include strategies in restoration, modification, maintenance, prevention, and health promotion to participate in occupation.
7. advocate to support client needs, practitioner needs, and the profession's needs.
8. engage openly and professionally in the supervisory relationship with occupational therapists, occupational therapy aides, and volunteers.
9. exhibit ethical and professional conduct in accordance with the core values and code of ethics established by the American Occupational Therapy Association.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Pre-Entry Requirements** | | |
| PSY 200 | General Psychology (MOTR PSYC 100) | 3 |
| BIO 207 | Anatomy and Physiology I (MOTR LIFS 150LAP) | 4 |
| BIO 111 | Introductory Biology (MOTR BIOL 100L) | 4-5 |
| or BIO 140 | Principles of Biology I (MOTR BIOL 150L) | |
| or CHM 101 | Fundamentals of Chemistry I (MOTR CHEM 100L) | |
| **General Education** | | |
| COM 101 | Oral Communication I (MOTR COMM 100) [1] | 3 |
| or COM 107 | Public Speaking (MOTR COMM 110) | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 |
| or ENG 102 | College Composition II (MOTR ENGL 200) | |
| PSY 205 | Human Growth and Development (MOTR PSYC 200) | 3 |
| BIO 208 | Anatomy and Physiology II | 4 |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement | 3 |
| **Program Requirements** | | |
| OTA 101 | Fundamentals of Occupational Therapy | 3 |
| OTA 103 | The Occupational Therapy Process | 2 |
| OTA 102 | Occupational Therapy in Psychosocial Settings and the Community | 4 |
| OTA 104 | Occupational Therapy in Rehabilitation I | 2 |
| OTA 110 | Kinesiology Fundamentals for Occupational Therapy Practice | 3 |
| OTA 120 | Occupation and Society | 3 |
| OTA 207 | Health Promotion and Disease Process | 4 |
| OTA 203 | Intervention Strategies for Orthopedic Conditions | 4 |
| OTA 204 | Occupational Therapy for Children and Youth | 4 |
| OTA 208 | Intervention Strategies for Neurological Conditions | 2 |
| OTA 215 | The Management of Occupational Therapy | 2 |
| OTA 216 | Seminar in Occupational Therapy Practice | 1 |
| OTA 220 | Fieldwork Level 2A | 6 |
| OTA 221 | Fieldwork Level 2B | 6 |
| **Total Credit Hours** | | **73-74** |

[1] COM 101 is preferred.

# Admission Requirements

We admit up to 24 students every fall. Admission to the OTA program is on a first-come, first-served basis for those students who meet the minimum academic and other requirements.

To facilitate the entry of students into the available spaces, an applicant list is used. A student is placed on the applicant list once program application prerequisites have been met and a program application has been submitted. To apply, students meet with an advisor. Placement on the applicant list is based solely on the date of the application. Students should regularly check their STLCC email, as that is how the program will communicate further information. Admission offers will be sent via STLCC email in the spring to those being offered admission to the program for the fall semester. All students joining the program must attend a mandatory program orientation in May.

The OTA program is a selective admission, college-level program. Students must have successfully completed specific requirements before application, including:

- high school or college cumulative grade point average of 2.5
- having minimum placement test scores or successful completion of the following courses:
- **Math Proficiency: Complete ONE of the following before application to the program:**
  - Math ACT score of 19 or higher OR SAT math score of 500 or higher (within the last 3 years)
  - Place into MTH 140  higher on the Accuplacer (Next Gen) (within the previous 3 years)
  - Completion of courses:  MTH 140 or MTH 140S or higher-level math with a “C” or higher
- **English Proficiency: Complete ONE of the following before application to the program:**
  - English ACT score of 18 or higher OR SAT EBRW score of 500 or higher (within the last 3 years)
  - Accuplacer (Next Gen) score of 250 or higher (within the previous 3 years) OR high school GPA of 2.6 or higher
  - Placement into ENG 101
- **Reading Proficiency: Complete ONE of the following before application to the program:**
  - Reading ACT score of 18 or higher OR SAT EBRW score of 500 or higher (within the last 3 years)
  - Accuplacer (Next Gen) score of 250 or higher on the Reading Portion (within the previous 3 years)
  - Demonstrate college-level reading competency.
- **Biology:**
  - A&P I (BIO 207) must be completed with a “C” or higher within the last 5 years from application to the program.
  - Completion of BIO 111 or BIO 140 or CHM 101 with a minimum grade of “C” or higher
- **Psychology:**
  - General Psychology (PSY 200) must be completed with a “C” or higher within 5 years from application to the program.

Students must complete the appropriate pre-requisite courses before enrolling in the required general education, biology, and OTA courses. Once accepted to the OTA Program, there will be a mandatory orientation during the first part of May. All OTA students must complete Level II fieldwork within 18 months following completion of academic coursework.

Please be aware that a felony conviction could impact a student's ability to participate in fieldwork experiences, ability to take the certification exam, and/or obtain a license to practice occupational therapy. See the OTA program contact for more information.

**Please Note:** Credits earned in STLCC’s OTA AAS program generally do not transfer to occupational therapy master’s degree programs. The curriculum for an OTA degree is distinctly different from the curriculum for an OT degree. OTA focuses on technical skills and knowledge, while the OT degree emphasizes theory, research, and management. In addition, the OT degree is an entry-level master’s degree. In most cases, a student would need to complete a bachelor’s degree before beginning an OT degree program.

## Retention Policy

Students must earn a "C" (74%) or above in all OTA and Biology courses and maintain an overall G.P.A. of at least 2.0 (C).

Students receiving a "D" or below 74% in OTA or Biology courses must repeat these courses. **Only one repeat is allowed**. The student may not enroll in a course more than two times without an appeal to the Selection and Retention committee. If repeating these courses puts a student out of the program sequence, the student will be able to continue at a later date only **if space is available**.

No OTA course may be repeated more than once or enrolled in more than twice, without review by the retention committee.

Students may only repeat/re-enroll in OTA courses on a *space-available basis*.

More information regarding specific classroom and fieldwork education grading policies is available in the student handbook, which is distributed at orientation.

Refer to the OTA program webpage for the **admission's checklist (https://stlcc.edu/pathways/health/occupational-therapy-assistant/requirements-checklist.aspx).**

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

# Courses to be completed prior to beginning program:

| Code | Title | Credit Hours |
|---|---|---|
| BIO 111 | Introductory Biology (MOTR BIOL 100L) | 4-5 |
| or BIO 140 | Principles of Biology I (MOTR BIOL 150L) | |
| or CHM 101 | Fundamentals of Chemistry I (MOTR CHEM 100L) | |
| BIO 207 | Anatomy and Physiology I (MOTR LIFS 150LAP) | 4 |
| PSY 200 | General Psychology (MOTR PSYC 100) | 3 |
| **Total Credit Hours** | | **11-12** |

# Academic Plan

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| Choose one of the following: | | 3 | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| ENG 102 | College Composition II (MOTR ENGL 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| PSY 205 | Human Growth and Development (MOTR PSYC 200) | 3 | PSY 200 with a minimum grade of "C" and Reading Proficiency | |
| OTA 101 | Fundamentals of Occupational Therapy | 3 | Admission to the OTA program and Reading Proficiency | Exploratory Course |
| OTA 103 | The Occupational Therapy Process | 2 | Admission to the OTA program and Reading Proficiency | Exploratory Course |
| OTA 110 | Kinesiology Fundamentals for Occupational Therapy Practice | 3 | Admission to the OTA program and Reading Proficiency | Critical Course |
| | **Credit Hours** | **14** | | |
| **Spring** | | | | |
| BIO 208 | Anatomy and Physiology II | 4 | BIO 207 with a minimum grade of "C" and Reading Proficiency | |
| OTA 102 | Occupational Therapy in Psychosocial Settings and the Community | 4 | OTA 101, OTA 103, OTA 110, and PSY 205 with minimum grades of "C" and Reading Proficiency | Gateway Course |
| OTA 104 | Occupational Therapy in Rehabilitation I | 2 | OTA 101, OTA 103, OTA 110, and PSY 205 with minimum grades of "C" and Reading Proficiency | Gateway Course |
| OTA 120 | Occupation and Society | 3 | OTA 101, OTA 103, and OTA 110 with minimum grades of "C" and Reading Proficiency | Request degree audit. |

| | | | | |
|---|---|---|---|---|
| OTA 207 | Health Promotion and Disease Process | 4 | OTA 101, OTA 103, OTA 110, and PSY 205 with minimum grades of "C" and Reading Proficiency | |
| | **Credit Hours** | **17** | | |
| **Summer** | | | | |
| Choose one of the following: | | 3 | | COM 101 is preferred. |
| COM 101 | Oral Communication I (MOTR COMM 100) | | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | |
| COM 107 | Public Speaking (MOTR COMM 110) | | Reading Proficiency | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | |
| | **Credit Hours** | **6** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| OTA 203 | Intervention Strategies for Orthopedic Conditions | 4 | OTA 102, OTA 104, OTA 207, BIO 208, and OTA 120 with minimum grades of "C", and Reading Proficiency | |
| OTA 204 | Occupational Therapy for Children and Youth | 4 | OTA 102, OTA 104, OTA 207, OTA 120, and BIO 208 with minimum grades of "C" and Reading Proficiency | |
| OTA 208 | Intervention Strategies for Neurological Conditions | 2 | BIO 208, OTA 102, OTA 104, OTA 207, and OTA 120 with minimum grades of "C" and Reading Proficiency | |
| OTA 215 | The Management of Occupational Therapy | 2 | OTA 102, OTA 104, OTA 207, OTA 120, and BIO 208 with minimum grades of "C" and Reading Proficiency | |
| | **Credit Hours** | **12** | | |
| **Spring** | | | | |
| OTA 216 | Seminar in Occupational Therapy Practice | 1 | OTA 203, OTA 204, OTA 208, and OTA 215 with minimum grades of "C", and Reading Proficiency | |
| OTA 220 | Fieldwork Level 2A | 6 | OTA 203, OTA 204, OTA 208, and OTA 215 with minimum grades of "C" and Reading Proficiency | Full-time 8-week fieldwork |
| OTA 221 | Fieldwork Level 2B | 6 | OTA 220 with a grade of "S" and Reading Proficiency | Full-time 8-week fieldwork |
| | **Credit Hours** | **13** | | |
| | **Total Credit Hours** | **62** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Paramedic Technology: AAS

**Associate in Applied Science | 74 credit hours minimum**

**School of Health Professions**

**Program Website (https://stlcc.edu/programs-academics/pathways/health-professions/paramedic-technology/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

Paramedic Technology, Associate in Applied Science prepares students for positions as emergency medical technicians-paramedics. Paramedics are skilled in patient assessment and recognition of diagnostic signs and symptoms of major injuries and illnesses. They learn to use ambulance, rescue vehicle, and hospital emergency room equipment to provide high-level emergency medical care and stabilize emergency patients. Paramedics also are trained to provide advanced life support to include fluid and drug therapy, as well as the performance of some essential emergency surgical techniques under the written or oral orders of licensed physicians.

Persons interested in this program should have maturity in dealing with others as well as co-workers. They should have good manual dexterity and physical coordination for carrying, lifting, extricating, climbing, hoisting, etc. In addition, they should be able to give as well as receive written and oral directions and instruction and have good vision and visual color discrimination in examination of patients for determining diagnostic signs requiring immediate treatment.

Graduates are eligible to sit for state and national licensing boards. Positions are available with ambulance services, fire departments, hospitals, emergency communications centers, and industrial medical and safety departments.

Students obtaining the AAS Paramedic technology degree versus the Certificate of Proficiency will allow them to have a greater understanding of how the human body works as well as increasing their opportunity for increased salary and promotion opportunities.

The St. Louis Community College Paramedic Technology program is accredited by the Commission on Accreditation of Allied Health Education Programs (**www.caahep.org (http://www.caahep.org)**) upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP).

The 2023 CAAHEP *Standards and Guidelines for the Accreditation of Educational Programs in the Emergency Medical Services Professions.*

*"To prepare Paramedics who are competent in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains to enter the profession."*

To contact CAAHEP:

1361 Park St.
Clearwater, FL 33756
Telephone: 727-210-2350

To contact CoAEMSP:

8301 Lakeview Pkwy.
Suite 111-312
Rowlett, TX 75088
Telephone: 214-703-8445
Fax 214-703-8992
**www.coaemsp.org (http://www.coaemsp.org)**

**Location.** This program is offered in its entirety at Florissant Valley, Forest Park, and Wildwood.

**Licensure.** This program meets the educational requirements for state licensure in the following states: Missouri and Illinois. Students interested in pursuing licensure in a different state should contact the program coordinator for more information.

**Related Programs.** The Paramedic Technology Department offers a certificate in the following area:

- **Paramedic Technology, Certificate of Proficiency (p. 335)**

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. use Advanced Life Support (ALS) equipment.
2. provide age-appropriate care as it relates to emergency medicine.
3. administer proper patient care.
4. perform patient care assessments.
5. plan the patient's treatment based upon the assessment.
6. demonstrate competent entry-level paramedic skills in laboratory and scenario settings.

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Pre-Entry Requirements** | | |
| EMT 119 | Emergency Medical Technician Emergency Medical Skills | 1 |
| EMT 123 | Emergency Medical Technician Clinical I | 1 |
| BIO 111 | Introductory Biology (MOTR BIOL 100L) | 4 |
| EMT 121 | Emergency Care, Principles, and Techniques | 8 |
| **General Education** | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 |
| MTH 140 | Intermediate Algebra | 3 |
| or MTH 140S | Intermediate Algebra with Support | |
| PSY 200 | General Psychology (MOTR PSYC 100) | 3 |
| BIO 207 | Anatomy and Physiology I (MOTR LIFS 150LAP) | 4 |
| BIO 208 | Anatomy and Physiology II | 4 |
| **Program Requirements** | | |
| PAR 233 | EMS Foundations | 1 |
| PAR 235 | Paramedic Skills I | 2 |
| PAR 221 | Paramedic Clinical I | 3 |
| PAR 236 | EMS Pathophysiology | 2 |
| PAR 237 | Pulmonology | 3 |
| PAR 238 | Cardiology | 5 |
| PAR 239 | Trauma | 3 |
| PAR 240 | EMS Operations | 2 |
| PAR 222 | Paramedic Clinical II | 3 |
| PAR 242 | Medical Care | 5 |
| PAR 245 | Paramedic Skills II | 2 |
| PAR 241 | EMS Seminar | 3 |
| PAR 243 | Field Internship | 4 |
| PAR 244 | Special Patients | 2 |
| **Total Credit Hours** | | **74** |

# Paramedic Requirements

- **Minimum Cumulative Grade Point Average (GPA): Students must have *and maintain* a GPA of 2.5 to be placed and remain on the waitlist.** A 2.5 in high school or for 15 hours (minimum) of college work. **Students with fewer than 15 hours of college credit must have both a 2.5 GPA in high school and a 2.5 GPA in college.**
  - **GED Applicants:** must have 15 hours of **(100-level)** college credits with a 2.5 GPA
  - **STLCC students with at least 15 college-level credits with a 2.5 GPA** will have met this requirement, regardless of the GPA at other colleges.
  - **College transfer students with fewer than 15 STLCC credits:** must have a cumulative 2.5 GPA in college-level credits earned at all colleges attended.
  - **NOTE:** Developmental courses (numbered below 100) will NOT be counted toward the 15 hours of college work and will NOT be included in the GPA for admission to the program.
- The following requirements are required/provided post applying to the program: pre-admission test, state of Missouri EMT-B license, American Heart Association (AHA) basic life support provider card, two letters of recommendation, documentation of patient care experience, and interview:
  - **Pre-Admission Test** - A score of 75% or greater is required. You must present a valid State of Missouri EMT-B license to take the paramedic pre-test (EMT test covering current NREMT guidelines). Please contact the Program Coordinator, Steve Newcomb, at **snewcomb@stlcc.edu** or 314-644-9672 to take the test.
  - **State of Missouri EMT-B License** - current copy of active license.
  - **American Heart Association Basic Life Support Provider card** - current copy of active certification.
  - **Two Letters of Recommendation** - from an EMS supervisor, medical director, or emergency department physician, emergency department nurse, or an EMT instructor.
    - **Documentation of Patient Care Experience** - Verified documentation of either a 100-hour EMS class or 100 hours of patient care experience involving assessment and treatment. Verification should be made on the appropriate letterhead, signed by the service provider's supervisor, and listing the beginning and ending (or through) dates. Means other than letterhead are at the program coordinator's discretion. This is separate from the letters of recommendation.
  - **Interview** - To be scheduled. Please contact the Program Coordinator for dates.
- **When all academic criteria have been met, students must submit a separate Paramedic Technology Program application, signed by an advisor, and returned via email to STLCC-EmergencyMedical@stlcc.edu**. *Mailed or faxed applications will* **NOT** *be accepted*. **See an advisor to obtain a Paramedic Technology program application**.

**Submission and review of paramedic criteria (7-13) are handled by the department and should be sent to snewcomb@stlcc.edu. A student's application is not considered complete until all paramedic criteria have been met.**

**NOTE: Admission and degree requirements are subject to change without advance notice.**

**NOTE:** BIO 207 **is a degree requirement for the Associate in Applied Science (AAS) but not the Certificate of Proficiency (CP) of the Paramedic Technology program. All students start in the CP. If you wish to pursue your AAS as well, please be aware that** BIO 207 **has a prerequisite of either** BIO 111**,** BIO 140**, or** CHM 101**.**

**Please be aware that hospitals and facilities may mandate that a criminal background check and/or drug screening check (at the student's expense) be conducted before placement in a clinical or field setting. Students not passing these checks may be prohibited from participating in the clinical or field experience, thus rendering the student ineligible to satisfactorily meet the course and program requirements.**

# Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

# Program Pre-Entry Requirements

| Code | Title | Credit Hours |
|---|---|---|
| BIO 111 | Introductory Biology (MOTR BIOL 100L) | 4 |
| EMT 121 | Emergency Care, Principles, and Techniques [1] | 8 |
| EMT 119 | Emergency Medical Technician Emergency Medical Skills [1] | 1 |
| EMT 123 | Emergency Medical Technician Clinical I [1] | 1 |
| **Total Credit Hours** | | **14** |

[1] Students who currently hold an active Missouri EMT#B (MO#EMT B) license should contact the Program Coordinator to determine eligibility for Credit for Prior Learning (CPL) for the following courses: EMT 119, EMT 121, and EMT 123.

# Paramedic Technology Program Academic Plan

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| BIO 207 | Anatomy and Physiology I (MOTR LIFS 150LAP) | 4 | BIO 111 or BIO 140 or CHM 101 with a minimum grade of "C", or college-level course equivalent, and Reading Proficiency | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | |
| PSY 200 | General Psychology (MOTR PSYC 100) | 3 | Reading Proficiency or concurrent enrollment in RDG 079 | |
| Choose one of the following: | | 3 | | |
| MTH 140 | Intermediate Algebra | | Satisfactory placement and Reading Proficiency | |
| MTH 140S | Intermediate Algebra with Support | | Reading Proficiency | |
| | **Credit Hours** | **16** | | |
| **Spring** | | | | |
| PAR 233 | EMS Foundations | 1 | Admission to Paramedic Program and Reading Proficiency | |
| PAR 235 | Paramedic Skills I | 2 | Admission to the Paramedic program and Reading Proficiency | |
| PAR 236 | EMS Pathophysiology | 2 | Admission to the Paramedic program and Reading Proficiency | |
| PAR 237 | Pulmonology | 3 | Admission to the Paramedic program and Reading Proficiency | |
| PAR 242 | Medical Care | 5 | Admission to Paramedic program and Reading Proficiency | |
| PAR 221 | Paramedic Clinical I | 3 | Admission to the Paramedic program and Reading Proficiency | |
| | **Credit Hours** | **16** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| PAR 222 | Paramedic Clinical II | 3 | PAR 221 with a minimum grade of "C" and Reading Proficiency | |
| PAR 238 | Cardiology | 5 | PAR 235, PAR 236, PAR 237, and PAR 242 with minimum grades of "C", or by permission of the program director, and Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| PAR 239 | Trauma | 3 | PAR 235, PAR 236, and PAR 242 with minimum grades of "C" and Reading Proficiency | |
| PAR 240 | EMS Operations | 2 | PAR 235, PAR 236, PAR 237, and PAR 242 with minimum grades of "C" or by permission of the program director and Reading Proficiency | |
| PAR 244 | Special Patients | 2 | Admission to Paramedic program and Reading Proficiency | Corequisite: PAR 245 |
| PAR 245 | Paramedic Skills II | 2 | PAR 235, PAR 236, PAR 237, and PAR 242 with minimum grades of "C", or by permission of the program director, and Reading Proficiency | Corequisite: PAR 244 |
| | **Credit Hours** | **17** | | |
| **Spring** | | | | |
| PAR 241 | EMS Seminar | 3 | PAR 233, PAR 238, PAR 239, PAR 240, PAR 222, PAR 245, and PAR 244 with minimum grades of "C", and Reading Proficiency | |
| PAR 243 | Field Internship | 4 | Admission to Paramedic program, PAR 233, PAR 235, PAR 236, PAR 237, PAR 238, PAR 239, PAR 240, PAR 242, PAR 244, PAR 221, PAR 222, and PAR 245 with minimum grades of "C", and Reading Proficiency | |
| BIO 208 | Anatomy and Physiology II | 4 | BIO 207 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **11** | | |
| | **Total Credit Hours** | **60** | | |

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Academic Plan (Spring Start)

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

# Program Pre-Entry Requirements

| Code | Title | Credit Hours |
|---|---|---|
| BIO 111 | Introductory Biology (MOTR BIOL 100L) | 4 |
| EMT 119 | Emergency Medical Technician Emergency Medical Skills [1] | 1 |
| EMT 121 | Emergency Care, Principles, and Techniques [1] | 8 |
| EMT 123 | Emergency Medical Technician Clinical I [1] | 1 |
| **Total Credit Hours** | | **14** |

[1] Students who currently hold an active Missouri EMT#B (MO#EMT B) license should contact the Program Coordinator to determine eligibility for Credit for Prior Learning (CPL) for the following courses: EMT 119, EMT 121, and EMT 123.

# Academic Plan

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Spring** | | | | |
| BIO 207 | Anatomy and Physiology I (MOTR LIFS 150LAP) | 4 | BIO 111 or BIO 140 or CHM 101 with a minimum grade of "C", or college-level course equivalent, and Reading Proficiency | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | |
| PSY 200 | General Psychology (MOTR PSYC 100) | 3 | Reading Proficiency or concurrent enrollment in RDG 079 | |
| Choose one of the following: | | 3 | | |
| MTH 140 | Intermediate Algebra | | Satisfactory placement and Reading Proficiency | |
| MTH 140S | Intermediate Algebra with Support | | Reading Proficiency | |
| | **Credit Hours** | **16** | | |
| **Fall** | | | | |
| PAR 233 | EMS Foundations | 1 | Admission to Paramedic Program and Reading Proficiency | |
| PAR 235 | Paramedic Skills I | 2 | Admission to the Paramedic program and Reading Proficiency | |
| PAR 236 | EMS Pathophysiology | 2 | Admission to the Paramedic program and Reading Proficiency | |
| PAR 237 | Pulmonology | 3 | Admission to the Paramedic program and Reading Proficiency | |
| PAR 242 | Medical Care | 5 | Admission to Paramedic program and Reading Proficiency | |
| PAR 221 | Paramedic Clinical I | 3 | Admission to the Paramedic program and Reading Proficiency | |
| | **Credit Hours** | **16** | | |
| **Second Year** | | | | |
| **Spring** | | | | |
| PAR 222 | Paramedic Clinical II | 3 | PAR 221 with a minimum grade of "C" and Reading Proficiency | |
| PAR 238 | Cardiology | 5 | PAR 235, PAR 236, PAR 237, and PAR 242 with minimum grades of "C", or by permission of the program director, and Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| PAR 239 | Trauma | 3 | PAR 235, PAR 236, and PAR 242 with minimum grades of "C" and Reading Proficiency | |
| PAR 240 | EMS Operations | 2 | PAR 235, PAR 236, PAR 237, and PAR 242 with minimum grades of "C" or by permission of the program director and Reading Proficiency | |
| PAR 244 | Special Patients | 2 | Admission to Paramedic program and Reading Proficiency | Corequisite: PAR 245 |
| PAR 245 | Paramedic Skills II | 2 | PAR 235, PAR 236, PAR 237, and PAR 242 with minimum grades of "C", or by permission of the program director, and Reading Proficiency | Corequisite: PAR 244 |
| | **Credit Hours** | **17** | | |
| **Fall** | | | | |
| PAR 241 | EMS Seminar | 3 | PAR 233, PAR 238, PAR 239, PAR 240, PAR 222, PAR 245, and PAR 244 with minimum grades of "C", and Reading Proficiency | |
| PAR 243 | Field Internship | 4 | Admission to Paramedic program, PAR 233, PAR 235, PAR 236, PAR 237, PAR 238, PAR 239, PAR 240, PAR 242, PAR 244, PAR 221, PAR 222, and PAR 245 with minimum grades of "C", and Reading Proficiency | |
| BIO 208 | Anatomy and Physiology II | 4 | BIO 207 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **11** | | |
| | **Total Credit Hours** | **60** | | |

# Paramedic Technology: CP

**Certificate of Proficiency | 50 credit hours minimum**

**School of Health Professions**

**Program Website (https://stlcc.edu/programs-academics/pathways/health-professions/paramedic-technology/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

Paramedic Technology, Certificate of Proficiency prepares students for positions as emergency medical technicians-paramedics. Paramedics are skilled in patient assessment and recognition of diagnostic signs and symptoms of major injuries and illnesses. They learn to use ambulance, rescue vehicle, and hospital emergency room equipment to provide high-level emergency medical care and stabilize emergency patients. Paramedics also are trained to provide advanced life support to include fluid and drug therapy, as well as the performance of some essential emergency surgical techniques under the written or oral orders of licensed physicians.

Students should have maturity in dealing with others. They should have good manual dexterity and physical coordination for carrying, lifting, extricating, climbing, hoisting, etc. In addition, they should be able to give as well as receive written and oral directions and instruction. Good vision and visual color discrimination is necessary in the examination of patients for determining diagnostic signs requiring immediate treatment.

Students interested in this certificate will be taking the paramedic courses to obtain National Registry certification, and graduates are eligible to sit for state and national licensing boards. Positions are available with ambulance services, fire departments, hospitals, emergency communications centers, and industrial medical and safety departments. Students who choose to obtain an Associates of Applied Science degree will have increased salary and promotion opportunities.

The St. Louis Community College Paramedic Technology program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org (http://www.caahep.org)) upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP).

The 2023 CAAHEP *Standards and Guidelines for the Accreditation of Educational Programs in the Emergency Medical Services Professions*

*"To prepare Paramedics who are competent in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains to enter the profession."*

To contact CAAHEP:

1361 Park St.
Clearwater, FL 33756
Telephone: 727-210-2350

To contact CoAEMSP:

8301 Lakeview Pkwy.
Suite 111-312
Rowlett, TX 75088
Telephone: 214-703-8445
Fax 214-703-8992
www.coaemsp.org (http://www.coaemsp.org)

**Location.** This program is offered in its entirety at Florissant Valley, Forest Park, and Wildwood.

**Related Program.** The Paramedic Technology Department offers an associate in the following area:

- **Paramedic Technology, Associate in Applied Science (p. 329)**

**Licensure.** This program meets the educational requirements for state licensure in the following states: Missouri and Illinois. Students interested in pursuing licensure in a different state should contact the program coordinator for more information.

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program “St. Louis Community College” and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. use Advanced Life Support (ALS) equipment.
2. provide age-appropriate care as it relates to emergency medicine.
3. administer proper patient care.
4. perform patient care assessments.
5. plan the patient's treatment based upon the assessment.
6. demonstrate competent entry level paramedic skills in laboratory and scenario settings.

Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Pre-Entry Requirements** | | |
| EMT 119 | Emergency Medical Technician Emergency Medical Skills | 1 |
| EMT 123 | Emergency Medical Technician Clinical I | 1 |
| EMT 121 | Emergency Care, Principles, and Techniques | 8 |
| **Program Requirements** | | |
| PAR 233 | EMS Foundations | 1 |
| PAR 235 | Paramedic Skills I | 2 |
| PAR 221 | Paramedic Clinical I | 3 |
| PAR 236 | EMS Pathophysiology | 2 |
| PAR 237 | Pulmonology | 3 |

| | | |
|---|---|---|
| PAR 238 | Cardiology | 5 |
| PAR 239 | Trauma | 3 |
| PAR 240 | EMS Operations | 2 |
| PAR 222 | Paramedic Clinical II | 3 |
| PAR 242 | Medical Care | 5 |
| PAR 244 | Special Patients | 2 |
| PAR 245 | Paramedic Skills II | 2 |
| PAR 241 | EMS Seminar | 3 |
| PAR 243 | Field Internship | 4 |
| **Total Credit Hours** | | **50** |

# Paramedic Requirements

- **Minimum Cumulative GPA: Students must have *and maintain* a GPA of 2.5 to be placed and remain on the waitlist.** A 2.5 in high school or for 15 hours (minimum) of college work. **Students with fewer than 15 hours of college credit must have both a 2.5 GPA in high school and a 2.5 GPA in college.**
  - **GED Applicants:** must have 15 hours of **(100-level)** college credits with a 2.5 GPA
  - **STLCC students with at least 15 college-level credits with a 2.5 GPA** will have met this requirement, regardless of the GPA at other colleges.
  - **College transfer students with fewer than 15 STLCC credits:** must have a cumulative 2.5 GPA in college-level credits earned at all colleges attended.
  - **NOTE:** Developmental courses (numbered below 100) will NOT be counted toward the 15 hours of college work and will NOT be included in the GPA for admission to the program.
- The following requirements are required/provided post applying to the program: pre-admission test, state of Missouri EMT-B license, American Heart Association (AHA) basic life support provider card, two letters of recommendation, documentation of patient care experience, and interview:
  - **Pre-Admission Test** - A score of 75% or greater is required. You must present a valid State of Missouri EMT-B license to take the paramedic pre-test (EMT test covering current NREMT guidelines). Please contact the Program Coordinator, Steve Newcomb, at **snewcomb@stlcc.edu** or 314-644-9672 to take the test.
  - **State of Missouri EMT-B License** - current copy of active license.
  - **American Heart Association Basic Life Support Provider card** - current copy of active certification.
  - **Two Letters of Recommendation** - from an EMS supervisor, medical director, or emergency department physician, emergency department nurse, or an EMT instructor.
  - **Documentation of Patient Care Experience** - Verified documentation of either a 100-hour EMS class or 100 hours of patient care experience involving assessment and treatment. Verification should be made on the appropriate letterhead, signed by the service provider's supervisor, and listing the beginning and ending (or through) dates. Means other than letterhead are at the program coordinator's discretion. This is separate from the letters of recommendation.
  - **Interview** - To be scheduled. Please contact the Program Coordinator for dates.
- **When all academic criteria have been met, students must submit a separate Paramedic Technology Program application, signed by an advisor, and returned via email to STLCC-EmergencyMedical@stlcc.edu**. *Mailed or faxed applications will* **NOT** *be accepted*. **See an advisor to obtain a Paramedic Technology program application**.

**Submission and review of paramedic criteria (7-13) are handled by the department and should be sent to snewcomb@stlcc.edu. A student's application is not considered complete until all paramedic criteria have been met.**

**NOTE: Admission and degree requirements are subject to change without advance notice.**

**NOTE:** BIO 207 **is a degree requirement for the Associate in Applied Science (AAS) but not the Certificate of Proficiency (CP) of the Paramedic Technology program. All students start in the CP. If you wish to pursue your AAS as well, please be aware that** BIO 207 **has a prerequisite of either** BIO 111**,** BIO 140**, or** CHM 101**.**

**Please be aware that hospitals and facilities may mandate that a criminal background check and/or drug screening check (at the student's expense) be conducted before placement in a clinical or field setting. Students not passing these checks may be prohibited from participating in the clinical or field experience, thus rendering the student ineligible to satisfactorily meet the course and program requirements.**

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

# Pre-Entry Requirements

| Code | Title | Credit Hours |
|---|---|---|
| EMT 119 | Emergency Medical Technician Emergency Medical Skills [1] | 1 |
| EMT 121 | Emergency Care, Principles, and Techniques [1] | 8 |

| | | |
|---|---|---|
| EMT 123 | Emergency Medical Technician Clinical I [1] | 1 |
| **Total Credit Hours** | | **10** |

[1] Students who currently hold an active Missouri EMT#B (MO#EMT B) license should contact the Program Coordinator to determine eligibility for Credit for Prior Learning (CPL) for the following courses: EMT 119 EMT 121, and EMT 123.

# Full-Time Academic Plan (Fall Start)

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| PAR 233 | EMS Foundations | 1 | Admission to Paramedic Program and Reading Proficiency | |
| PAR 235 | Paramedic Skills I | 2 | Admission to the Paramedic program and Reading Proficiency | |
| PAR 236 | EMS Pathophysiology | 2 | Admission to the Paramedic program and Reading Proficiency | |
| PAR 237 | Pulmonology | 3 | Admission to the Paramedic program and Reading Proficiency | |
| PAR 242 | Medical Care | 5 | Admission to Paramedic program and Reading Proficiency | |
| PAR 221 | Paramedic Clinical I | 3 | Admission to the Paramedic program and Reading Proficiency | |
| | **Credit Hours** | **16** | | |
| **Spring** | | | | |
| PAR 222 | Paramedic Clinical II | 3 | PAR 221 with a minimum grade of "C" and Reading Proficiency | |
| PAR 238 | Cardiology | 5 | PAR 235, PAR 236, PAR 237, and PAR 242 with minimum grades of "C", or by permission of the program director, and Reading Proficiency | |
| PAR 239 | Trauma | 3 | PAR 235, PAR 236, and PAR 242 with minimum grades of "C" and Reading Proficiency | |
| PAR 240 | EMS Operations | 2 | PAR 235, PAR 236, PAR 237, and PAR 242 with minimum grades of "C" or by permission of the program director and Reading Proficiency | |
| PAR 244 | Special Patients | 2 | Admission to Paramedic program and Reading Proficiency | Corequisite: PAR 245 |
| PAR 245 | Paramedic Skills II | 2 | PAR 235, PAR 236, PAR 237, and PAR 242 with minimum grades of "C", or by permission of the program director, and Reading Proficiency | Corequisite: PAR 244 |
| | **Credit Hours** | **17** | | |
| **Summer** | | | | |
| PAR 241 | EMS Seminar | 3 | PAR 233, PAR 238, PAR 239, PAR 240, PAR 222, PAR 245, and PAR 244 with minimum grades of "C", and Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| PAR 243 | Field Internship | 4 | Admission to Paramedic program, PAR 233, PAR 235, PAR 236, PAR 237, PAR 238, PAR 239, PAR 240, PAR 242, PAR 244, PAR 221, PAR 222, and PAR 245 with minimum grades of "C", and Reading Proficiency | |
| | **Credit Hours** | **7** | | |
| | **Total Credit Hours** | **40** | | |

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

# Pre-Entry Requirements

| Code | Title | Credit Hours |
|---|---|---|
| EMT 119 | Emergency Medical Technician Emergency Medical Skills [1] | 1 |
| EMT 121 | Emergency Care, Principles, and Techniques [1] | 8 |
| EMT 123 | Emergency Medical Technician Clinical I [1] | 1 |
| **Total Credit Hours** | | **10** |

[1] Students who currently hold an active Missouri EMT#B (MO#EMT B) license should contact the Program Coordinator to determine eligibility for Credit for Prior Learning (CPL) for the following courses: EMT 119, EMT 121, and EMT 123.

# Full-Time Academic Plan (Spring Start)

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Spring** | | | | |
| PAR 233 | EMS Foundations | 1 | Admission to Paramedic Program and Reading Proficiency | |
| PAR 235 | Paramedic Skills I | 2 | Admission to the Paramedic program and Reading Proficiency | |
| PAR 236 | EMS Pathophysiology | 2 | Admission to the Paramedic program and Reading Proficiency | |
| PAR 237 | Pulmonology | 3 | Admission to the Paramedic program and Reading Proficiency | |
| PAR 242 | Medical Care | 5 | Admission to Paramedic program and Reading Proficiency | |
| PAR 221 | Paramedic Clinical I | 3 | Admission to the Paramedic program and Reading Proficiency | |
| | **Credit Hours** | **16** | | |
| **Fall** | | | | |
| PAR 222 | Paramedic Clinical II | 3 | PAR 221 with a minimum grade of "C" and Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| PAR 238 | Cardiology | 5 | PAR 235, PAR 236, PAR 237, and PAR 242 with minimum grades of "C", or by permission of the program director, and Reading Proficiency | |
| PAR 239 | Trauma | 3 | PAR 235, PAR 236, and PAR 242 with minimum grades of "C" and Reading Proficiency | |
| PAR 240 | EMS Operations | 2 | PAR 235, PAR 236, PAR 237, and PAR 242 with minimum grades of "C" or by permission of the program director and Reading Proficiency | |
| PAR 244 | Special Patients | 2 | Admission to Paramedic program and Reading Proficiency | Corequisite: PAR 245 |
| PAR 245 | Paramedic Skills II | 2 | PAR 235, PAR 236, PAR 237, and PAR 242 with minimum grades of "C", or by permission of the program director, and Reading Proficiency | Corequisite: PAR 244 |
| | **Credit Hours** | **17** | | |
| **Second Year** | | | | |
| **Spring** | | | | |
| PAR 241 | EMS Seminar | 3 | PAR 233, PAR 238, PAR 239, PAR 240, PAR 222, PAR 245, and PAR 244 with minimum grades of "C", and Reading Proficiency | |
| PAR 243 | Field Internship | 4 | Admission to Paramedic program, PAR 233, PAR 235, PAR 236, PAR 237, PAR 238, PAR 239, PAR 240, PAR 242, PAR 244, PAR 221, PAR 222, and PAR 245 with minimum grades of "C", and Reading Proficiency | |
| | **Credit Hours** | **7** | | |
| | **Total Credit Hours** | **40** | | |

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Photography: AFA

**Associate in Fine Arts | 60 credit hours minimum**

**School of Communication, Design, and Creative Arts**

**Program Website (https://stlcc.edu/programs-academics/pathways/a-d-h-c/photography/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

The Associate in Fine Arts degree in Photography is designed for students planning to transfer to a four-year art program to earn a bachelor of fine arts degree. Students develop skills in black and white and digital printing techniques, learn effective methods for gathering and using information from visual images, and study current approaches used in portrait, architectural, and documentary photography. Persons interested in this program should possess a strong interest in perceiving and working in the visual world and a desire to produce results using current tools, as well as historical and non-traditional techniques.

**Locations.** This program is offered in its entirety at Florissant Valley, Forest Park, and Meramec.

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. create portfolios of prints showing both aesthetic and technical aspects of commercial photographic approaches and those dealing with artistic theories.
2. utilize the material and technical aspects of the medium in the development of individual work or projects.
3. describe the technical aspects of camera settings, image adjustment techniques, and printing.
4. employ verbal and written formats in the interpretations and evaluations of contemporary and historic photographs.

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

| Code | Title | Credit Hours |
|---|---|---|
| **General Education** | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 |
| ENG 102 | College Composition II (MOTR ENGL 200) | 3 |
| or COM 101 | Oral Communication I (MOTR COMM 100) | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 |
| ART 168 | History of Photography | 3 |
| **Math/Science Electives** | | |
| Students may elect to take MTH 161 or MTH 140 or MTH 180 AND One (1) MOTR Natural Science Elective OR Students may elect to take Two (2) MOTR Natural Science Electives [1] | | 6-7 |
| **Select one of the following Art History electives:** | | **3** |
| ART 101 | Art History - Prehistory to 1300 (MOTR ARTS 101) | |
| ART 102 | Art History - 1300 to Present (MOTR ARTS 102) | |
| ART 103 | History of Modern Art (MOTR ARTS 100) | |
| ART 169 | Concepts in the Visual Arts (MOTR ARTS 100) | |
| **Program Requirements** | | |
| ART 109 | Drawing I (MOTR PERF 105D) | 3 |
| ART 140 | Two-Dimensional Design | 3 |
| ART 110 | Drawing II | 3 |
| or ART 111 | Figure Drawing I | |
| ART 165 | Photography I (MOTR PERF 105GA) | 3 |
| ART 166 | Photography II | 3 |
| ART 204 | Photography III | 3 |
| ART 172 | Digital Photography (MOTR PERF 105GA) | 3 |
| ART 265 | Artificial Light Photography | 3 |
| ART 275 | Photo Imaging I: Photoshop (MOTR PERF 105GA) | 3 |
| **Photography Electives** | | |
| Select 6 credit hours of the following: | | 6 |
| AT 279 | Alternative Photographic Processes | |
| ART 249 | Digital Photography II | |
| ART 272 | Documentary Photography | |
| ART 269 | Field Photography | |

| | | |
|---|---|---|
| ART 271 | Portrait Photography | |
| ART 273 | Architectural Photography | |
| AT 175 | Video Art I | |
| AT 276 | Photo Imaging II: Photoshop | |
| AT 212 | Special Topics in Photography | |
| AT 280 | Advanced Photography | |
| ART 228 | Workplace Learning: Photography (Workplace Learning: Photography) | |
| ART 267 | Contemporary Concepts in Photography | |
| ART 167 | | |
| **Other Art Electives** | | |
| Select 6 credit hours of the following: | | 6 |
| ART 110 | Drawing II | |
| ART 210 | Advanced Drawing | |
| ART 111 | Figure Drawing I | |
| ART 112 | Figure Drawing II | |
| ART 113 | Ceramics I (MOTR PERF 105C) | |
| ART 213 | Ceramics II | |
| ART 114 | Painting I | |
| ART 214 | Painting II | |
| ART 115 | Printmaking I (MOTR PERF 105GA) | |
| ART 215 | Printmaking II | |
| ART 116 | Sculpture I (MOTR PERF 105S) | |
| ART 216 | Sculpture II | |
| ART 131 | Computer Art Studio | |
| ART 133 | Graphic Design I | |
| ART 207 | Three-Dimensional Design | |
| AT 291 | Fine Art Portfolio and Professional Practices | |
| AT 207 | Motion Media Design | |
| AT 135 | Web Design I | |
| AT 143 | Web Design II | |
| AT 201 | | |
| **Total Credit Hours** | | **60-61** |

[1] MTH 140S or MTH 161S or MTH 180S will also fulfill this requirement, but only 3 credits will apply toward the degree.

# Full-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| ART 140 | Two-Dimensional Design | 3 | Reading Proficiency | |
| ART 109 | Drawing I (MOTR PERF 105D) | 3 | Reading Proficiency | |
| ART 165 | Photography I (MOTR PERF 105GA) | 3 | Reading Proficiency | Gateway Course, Critical Course |
| ART 172 | Digital Photography (MOTR PERF 105GA) | 3 | Reading Proficiency | Exploratory Course, Critical Course |

| | | | | |
|---|---|---|---|---|
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| Choose one of the following: | | 3 | | |
| ART 110 | Drawing II | | ART 109 with a minimum grade of "C" and Reading Proficiency | |
| ART 111 | Figure Drawing I | | Reading Proficiency | |
| ART 166 | Photography II | 3 | ART 165 with a minimum grade of "C" and Reading Proficiency | |
| ART 275 | Photo Imaging I: Photoshop (MOTR PERF 105GA) | 3 | Reading Proficiency | |
| ART 101<br>or 102<br>or 103<br>or 169 | Art History - Prehistory to 1300 (MOTR ARTS 101)<br>or Art History - 1300 to Present (MOTR ARTS 102)<br>or History of Modern Art (MOTR ARTS 100)<br>or Concepts in the Visual Arts (MOTR ARTS 100) | 3 | Reading Proficiency | |
| Choose one of the following: | | 3 | | |
| ENG 102 | College Composition II (MOTR ENGL 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| COM 101 | Oral Communication I (MOTR COMM 100) | | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | |
| | **Credit Hours** | **15** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| ART 265 | Artificial Light Photography | 3 | ART 165 or ART 172 with a minimum grade of "C" and Reading Proficiency | |
| ART 168 | History of Photography | 3 | Reading Proficiency | This course is only offered at Meramec in the fall semester. |
| XXX xxx | Photography Elective | 3 | | See options listed below. |
| XXX xxx | Art Elective | 3 | | See options listed below. |
| XXX xxx | MOTR Natural Science Elective (p. 416) | 3 | | |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| ART 204 | Photography III | 3 | ART 166 and ART 172 with minimum grades of "C" and Reading Proficiency | This course is only offered at Meramec in the spring semester. |
| XXX xxx | Photography Elective | 3 | | See options listed below. |
| XXX xxx | Art Elective | 3 | | See options listed below. |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | Apply for graduation. |
| Choose one of the following: | | 3-4 | | |

| | | | | |
|---|---|---|---|---|
| MTH 140 | Intermediate Algebra | | Satisfactory placement and Reading Proficiency | |
| MTH 161 | Quantitative Reasoning (MOTR MATH 120) | | Satisfactory score on placement test and Reading Proficiency | |
| MTH 180 | Introductory Statistics (MOTR MATH 110) | | Satisfactory scores on placement test, and Reading Proficiency | |
| XXX xxx | MOTR Natural Science Elective (p. 416) | | | |
| | **Credit Hours** | **15-16** | | |
| | **Total Credit Hours** | **60-61** | | |

# Photography Electives

| Code | Title | Credit Hours |
|---|---|---|
| ART 167 | | 3 |
| ART 228 | Workplace Learning: Photography | 3 |
| ART 249 | Digital Photography II | 3 |
| ART 267 | Contemporary Concepts in Photography | 3 |
| ART 269 | Field Photography | 3 |
| ART 271 | Portrait Photography | 3 |
| ART 272 | Documentary Photography | 3 |
| ART 273 | Architectural Photography | 3 |
| AT 175 | Video Art I | 3 |
| AT 212 | Special Topics in Photography | 3 |
| AT 276 | Photo Imaging II: Photoshop | 3 |
| AT 279 | Alternative Photographic Processes | 3 |
| AT 280 | Advanced Photography | 1-4 |

# Art Electives

| Code | Title | Credit Hours |
|---|---|---|
| ART 110 | Drawing II | 3 |
| ART 111 | Figure Drawing I | 3 |
| ART 112 | Figure Drawing II | 3 |
| ART 113 | Ceramics I (MOTR PERF 105C) | 3 |
| ART 114 | Painting I | 3 |
| ART 115 | Printmaking I (MOTR PERF 105GA) | 3 |
| ART 116 | Sculpture I (MOTR PERF 105S) | 3 |
| ART 210 | Advanced Drawing | 3 |
| ART 213 | Ceramics II | 3 |
| ART 214 | Painting II | 3 |
| ART 215 | Printmaking II | 3 |
| ART 216 | Sculpture II | 3 |
| ART 131 | Computer Art Studio | 3 |
| ART 133 | Graphic Design I | 3 |
| ART 207 | Three-Dimensional Design | 3 |
| AT 135 | Web Design I | 3 |
| AT 143 | Web Design II | 3 |
| AT 201 | | 3 |
| AT 207 | Motion Media Design | 3 |
| AT 291 | Fine Art Portfolio and Professional Practices | 3 |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Part-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| ART 140 | Two-Dimensional Design | 3 | Reading Proficiency | |
| ART 165 | Photography I (MOTR PERF 105GA) | 3 | Reading Proficiency | Gateway Course, Critical Course |
| | **Credit Hours** | **6** | | |
| **Spring** | | | | |
| ART 109 | Drawing I (MOTR PERF 105D) | 3 | Reading Proficiency | |
| ART 172 | Digital Photography (MOTR PERF 105GA) | 3 | Reading Proficiency | Exploratory Course, Critical Course |
| | **Credit Hours** | **6** | | |
| **Summer** | | | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| | **Credit Hours** | **3** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| ART 168 | History of Photography | 3 | Reading Proficiency | This course is only offered at Meramec in the fall semester. |
| ART 166 | Photography II | 3 | ART 165 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| **Spring** | | | | |
| Choose one of the following: | | 3 | | |
| ART 110 | Drawing II | | ART 109 with a minimum grade of "C" and Reading Proficiency | |
| ART 111 | Figure Drawing I | | Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| XXX xxx | Photography Elective | 3 | | See options listed below. |
| | **Credit Hours** | **6** | | |
| **Summer** | | | | |
| Choose one of the following: | | 3 | | |
| ENG 102 | College Composition II (MOTR ENGL 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| COM 101 | Oral Communication I (MOTR COMM 100) | | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | |
| | **Credit Hours** | **3** | | |
| **Third Year** | | | | |
| **Fall** | | | | |
| ART 275 | Photo Imaging I: Photoshop (MOTR PERF 105GA) | 3 | Reading Proficiency | |
| XXX xxx | Art Elective | 3 | | See options listed below. |
| | **Credit Hours** | **6** | | |
| **Spring** | | | | |
| XXX xxx | Photography Elective | 3 | | See options listed below. |
| ART 101<br>or 102<br>or 103<br>or 169 | Art History - Prehistory to 1300 (MOTR ARTS 101)<br>or Art History - 1300 to Present (MOTR ARTS 102)<br>or History of Modern Art (MOTR ARTS 100)<br>or Concepts in the Visual Arts (MOTR ARTS 100) | 3 | Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| **Summer** | | | | |
| Choose one of the following: | | 3-4 | | |
| MTH 140 | Intermediate Algebra | | Satisfactory placement and Reading Proficiency | |
| MTH 161 | Quantitative Reasoning (MOTR MATH 120) | | Satisfactory score on placement test and Reading Proficiency | |
| MTH 180 | Introductory Statistics (MOTR MATH 110) | | Satisfactory scores on placement test, and Reading Proficiency | |
| XXX xxx | MOTR Natural Sciences Elective (p. 416) | | | |
| | **Credit Hours** | **3-4** | | |
| **Fourth Year** | | | | |
| **Fall** | | | | |
| ART 265 | Artificial Light Photography | 3 | ART 165 or ART 172 with a minimum grade of "C" and Reading Proficiency | |
| XXX xxx | Art Elective | 3 | | See options listed below. |
| | **Credit Hours** | **6** | | |
| **Spring** | | | | |
| XXX xxx | MOTR Natural Science Elective (p. 416) | 3 | | |

| | | | | |
|---|---|---|---|---|
| ART 204 | Photography III | 3 | ART 166 and ART 172 with minimum grades of "C" and Reading Proficiency | This course is only offered at Meramec in the spring semester. |
| | **Credit Hours** | **6** | | |
| **Summer** | | | | |
| XXX xxx | Social & Behavioral Sciences: Civics (p. 416) | 3 | | Apply for graduation. |
| | **Credit Hours** | **3** | | |
| | **Total Credit Hours** | **60-61** | | |

# Photography Elective

| Code | Title | Credit Hours |
|---|---|---|
| AT 279 | Alternative Photographic Processes | 3 |
| ART 249 | Digital Photography II | 3 |
| ART 272 | Documentary Photography | 3 |
| ART 269 | Field Photography | 3 |
| ART 271 | Portrait Photography | 3 |
| ART 273 | Architectural Photography | 3 |
| AT 175 | Video Art I | 3 |
| AT 276 | Photo Imaging II: Photoshop | 3 |
| AT 212 | Special Topics in Photography | 3 |
| AT 280 | Advanced Photography | 1-4 |
| ART 228 | Workplace Learning: Photography | 3 |
| ART 167 | | 3 |
| ART 267 | Contemporary Concepts in Photography | 3 |

# Art Elective

| Code | Title | Credit Hours |
|---|---|---|
| ART 110 | Drawing II | 3 |
| ART 210 | Advanced Drawing | 3 |
| ART 111 | Figure Drawing I | 3 |
| ART 112 | Figure Drawing II | 3 |
| ART 113 | Ceramics I (MOTR PERF 105C) | 3 |
| ART 213 | Ceramics II | 3 |
| ART 114 | Painting I | 3 |
| ART 214 | Painting II | 3 |
| ART 115 | Printmaking I (MOTR PERF 105GA) | 3 |
| ART 215 | Printmaking II | 3 |
| ART 116 | Sculpture I (MOTR PERF 105S) | 3 |
| ART 216 | Sculpture II | 3 |
| ART 131 | Computer Art Studio | 3 |
| ART 133 | Graphic Design I | 3 |
| ART 207 | Three-Dimensional Design | 3 |
| AT 291 | Fine Art Portfolio and Professional Practices | 3 |
| AT 207 | Motion Media Design | 3 |
| AT 135 | Web Design I | 3 |
| AT 143 | Web Design II | 3 |
| AT 201 | | 3 |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Articulation Agreements

Articulation agreements are formal partnerships between St. Louis Community College and colleges or universities that outline how completed coursework transfers toward a specific degree program. These agreements help students continue their education by ensuring the credits earned at STLCC apply toward bachelor's degree requirements at the partner institution. STLCC continually collaborates with colleges and universities to establish new agreements that support a smooth transfer process.

Below is a list of current partner institutions with active articulation agreements for the Associate in Fine Arts - Photography. Some programs include links to academic plans. If a program does not have a linked plan available, students should meet with an academic advisor to obtain the appropriate plan and guidance.

## Kansas City Art Institute

- Photography, Bachelor of Fine Arts

## Savannah College of Art and Design

- Photography, Bachelor of Fine Arts

## School of the Art Institute of Chicago

- Bachelor of Fine Arts

## Webster University

- Bachelor of Fine Arts in Art with Studio Emphasis in Photography (https://catalog.stlcc.edu/programs/signed-articulation-agreements/webster-photography/)
- Photography, Bachelor of Arts

# Physical Therapist Assistant: AAS

**Associate in Applied Science | 74 credit hours minimum**

**School of Health Professions**

**Program Website (https://stlcc.edu/programs-academics/pathways/health-professions/physical-therapist-assistant/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

The Associate in Applied Science degree in Physical Therapist Assistant (PTA) prepares graduates to work as a team to assist the physical therapists (PTs) to manage movement dysfunction and enhance physical and functional abilities. They provide physical therapy services under the direction and supervision of the PT to restore and promote optimal physical function, wellness, and fitness. The PTA assists the PT in the care of individuals of all ages to prevent the onset and progression of impairments, functional limitations, and disabilities that may result from diseases, disorders, or injuries.

Students in the PTA program take general education courses, related science courses, and introductory PTA courses in the first year. During the second year of the program, students enroll in physical therapy didactic courses and clinical courses.

Graduates are prepared to perform components of interventions and data collection as well as assess the patient's/client's safety and response to the interventions provided under the direction and supervision of the PT in an ethical, legal, safe, and effective manner. As a PT/PTA team, graduates are prepared to educate and communicate with patients, caregivers, and other healthcare providers with recognition of individual, cultural, and economic differences.

Persons interested in this program should be service oriented and comfortable working with diverse people of all age groups in close one-to-one contact. They should enjoy physical activity and be patient and empathetic when instructing others. In addition, they should be able to meet the academic demands of a program that requires a commitment of time, energy, and motivation to learn.

Admission to the program is contingent on meeting established minimum criteria available through the academic advising office and online at the program webpage. Students are also required to complete a health history, immunization record, physical exam, drug test, and criminal background check.

The Physical Therapist Assistant Program is accredited by the Commission on Accreditation in Physical Therapy Education. Graduates of the program will be able to sit for the national licensure examination administered by the Federation of State Boards of Physical Therapy. Licensure is required in Missouri and most other states.

Application to the program is selective. The prerequisites for application to the program are based on professional standards and include the following:

- Math Proficiency: Complete ONE of the following prior to application to the program:
  - Math ACT score of 22 or higher OR SAT math score of 540 or higher (within the last 3 years)
  - Place into MTH 160 or higher on the Accuplacer (Next Gen) (within the last 3 years). Please note that MTH 161, 165, 166, or 180 will not meet the math requirement for the PTA Program.
  - Completion of MTH 140 or MTH 140S or higher-level math with a “C” or higher
- English Proficiency: Complete ONE of the following prior to application to the program:
  - English ACT score of 18 or higher OR SAT EBRW score of 500 or higher (within the last 3 years)
  - Accuplacer (Next Gen) score of 250 or higher (within the last 3 years) OR high school GPA of 2.6 or higher
  - Placement into ENG 101 OR completion of ENG 101 will satisfy the English prerequisite.
- Reading Proficiency: Complete ONE of the following prior to application to the program:
  - Reading ACT score of 18 or higher OR SAT EBRW score of 500 or higher (within the last 3 years)
  - Accuplacer (Next Gen) score of 250 or higher on the Reading Portion (within the last 3 years)
  - Demonstrate college-level reading competency.
- Biology:
  - A&P I (BIO 207) must be completed with a "C" or higher within 5 years from application to the program
  - Prerequisite: BIO 111 or BIO 140 or CHM 101 with a minimum grade of "C", or college-level course equivalent, and Reading Proficiency

**Location.** This program is offered in its entirety at Forest Park and Wildwood.

**Licensure.** This program meets the educational requirements for state licensure in the following states: Missouri, Illinois, and California. Students interested in pursuing licensure in a different state should contact the program coordinator for more information.

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program “St. Louis Community College” and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. demonstrate the skills necessary for a physical therapist assistant.
2. discuss the value of contemporary physical therapy through lifelong learning and service.
3. communicate with patients/clients, caregivers, and interprofessional team members.
4. integrate appropriate evidence-based resources to support clinical decision making.
5. develop a professional growth plan for career advancement and learning opportunities to improve knowledge, skills, and behaviors.

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate’s degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

# Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Pre-Entry Requirements** | | |
| BIO 111 | Introductory Biology (MOTR BIOL 100L) | 4-5 |
| or BIO 140 | Principles of Biology I (MOTR BIOL 150L) | |
| or CHM 101 | Fundamentals of Chemistry I (MOTR CHEM 100L) | |
| BIO 207 | Anatomy and Physiology I (MOTR LIFS 150LAP) | 4 |
| **General Education** | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 |
| or ENG 102 | College Composition II (MOTR ENGL 200) | |
| COM 101 | Oral Communication I (MOTR COMM 100) | 3 |
| or COM 107 | Public Speaking (MOTR COMM 110) | |
| PSY 200 | General Psychology (MOTR PSYC 100) | 3 |
| PSY 205 | Human Growth and Development (MOTR PSYC 200) | 3 |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 |
| BIO 208 | Anatomy and Physiology II | 4 |
| **Program Requirements** | | |
| PTA 100 | Introduction to Physical Therapist Assistant | 2 |
| PTA 110 | Kinesiology Fundamentals | 5 |
| PTA 150 | Medical Conditions in Rehabilitation | 3 |
| PTA 130 | Data Collection and Intervention Techniques for the Physical Therapist Assistant | 4 |
| PTA 140 | Fundamentals of Patient Care for the Physical Therapist Assistant | 4 |
| PTA 120 | Applied Science of the Movement System | 3 |
| PTA 250 | Clinical Education II | 4 |
| PTA 260 | Clinical Education III | 4 |
| PTA 220 | Therapeutic Exercise and Rehabilitation Concepts I | 7 |
| PTA 230 | Therapeutic Exercise and Rehabilitation Concepts II | 3 |
| PTA 206 | Physical Agents | 3 |
| PTA 240 | Health Occupation Seminar | 2 |
| PTA 200 | Clinical Education I | 3 |
| **Total Credit Hours** | | **74-75** |

# Admission and Requirements

Each year, 32 students are accepted on a first-come, first-served basis. Of that 32, five positions are available for potential priority admission for individuals who already have earned a bachelor's degree.

In order to facilitate the entry of students into the available spaces, a waiting list is used. A student is placed on the waiting list once program application prerequisites have been met and a program application has been submitted. Placement on the waiting list is based solely on the date of application. Students will be sent a letter each fall while on the list, asking for their intentions to pursue admission to the program. Failure to respond to this letter by the deadline will result in removal from the list. Letters will be sent in the spring to those being offered admission to the program in the fall semester. All those receiving letters must attend a mandatory program orientation scheduled in late April/early May.

The PTA program is a selective admission, college-level program. Students must have successfully completed specific requirements before application, including:

- high school or college cumulative grade point average of 2.5
- minimum placement test scores or successful completion of specific courses
- successful completion of "Anatomy and Physiology I" or BIO 207 within the last five years

The Associate in Applied Science degree for Physical Therapist Assistant is not equivalent to the first two years of a doctoral degree in Physical Therapy.

**Credits that transfer:** STLCC's Physical Therapist Assistant program has established an articulation agreement with Maryville University for the benefit of students who wish to continue their education and earn a Bachelor of Arts in Practice Management, or a Bachelor of Arts in Organizational Leadership.

## Retention Policy

Students must earn a "C" (74%) or above in all PTA courses and maintain an overall G.P.A. of at least 2.0 (C).

Students receiving a "D" or below 74% in PTA courses must repeat these courses. **Only one repeat is allowed.** The student may not enroll in a course more than two times without an appeal to the Selection and Retention committee. If repeating these courses puts a student out of the program sequence, the student will be able to continue at a later date only **if space is available.**

No PTA course may be repeated more than once or enrolled in more than twice without review by the retention committee.

Students may only repeat/re-enroll in PTA courses on a space-available basis.

**PTA Program Admission Requirements (https://stlcc.edu/pathways/health/physical-therapist-assistant/requirements-checklist.aspx)**

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

# Pre-Entry Requirements:

| Code | Title | Credit Hours |
|---|---|---|
| BIO 111 | Introductory Biology (MOTR BIOL 100L) | 4-5 |
| or BIO 140 | Principles of Biology I (MOTR BIOL 150L) | |
| or CHM 101 | Fundamentals of Chemistry I (MOTR CHEM 100L) | |
| BIO 207 | Anatomy and Physiology I (MOTR LIFS 150LAP) | 4 |
| **Total Credit Hours** | | **8-9** |

# Full-Time Academic Plan

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| BIO 208 | Anatomy and Physiology II | 4 | BIO 207 with a minimum grade of "C" and Reading Proficiency | Must be taken in Fall. This can be taken with either PTA 110 or PTA 120. |
| Choose one of the following: | | 3 | | Offered Fall and Spring |
| COM 101 | Oral Communication I (MOTR COMM 100) | | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | |
| COM 107 | Public Speaking (MOTR COMM 110) | | Reading Proficiency | |
| PSY 200 | General Psychology (MOTR PSYC 100) | 3 | Reading Proficiency or concurrent enrollment in RDG 079 | Offered Fall and Spring |
| PTA 100 | Introduction to Physical Therapist Assistant | 2 | Admission to the Physical Therapist Assistant program and Reading Proficiency | Exploratory Course |
| PTA 110 | Kinesiology Fundamentals | 5 | BIO 207 with a minimum grade of "C" and Reading Proficiency | Gateway Course, Critical Course. This can be taken with PTA 120. See note below about the course offering for PTA 110. This course can be taken prior to admission to the program. |
| | **Credit Hours** | **17** | | |

| | | | | |
|---|---|---|---|---|
| **Spring** | | | | |
| PTA 120 | Applied Science of the Movement System | 3 | Concurrent or prior enrollment in BIO 208 with a minimum grade of "C" and Reading Proficiency | Offered Fall and Spring. This can be taken with PTA 110. It must be taken first year of program. This course can be taken prior to admission to the program. |
| Choose one of the following: | | 3 | | Offered Fall and Spring |
| ENG 101 | College Composition I (MOTR ENGL 100) | | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| ENG 102 | College Composition II (MOTR ENGL 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| PTA 130 | Data Collection and Intervention Techniques for the Physical Therapist Assistant | 4 | Admission to the Physical Therapist Assistant program, concurrent or prior enrollment in PTA 222 or PTA 110 with a minimum grade of "C" and Reading Proficiency | Gateway Course |
| PSY 205 | Human Growth and Development (MOTR PSYC 200) | 3 | PSY 200 with a minimum grade of "C" and Reading Proficiency | Offered Fall and Spring |
| | **Credit Hours** | **13** | | |
| **Summer** | | | | |
| PTA 140 | Fundamentals of Patient Care for the Physical Therapist Assistant | 4 | PTA 214 or PTA 130 with a minimum grade of "C" and Reading Proficiency | |
| PTA 150 | Medical Conditions in Rehabilitation | 3 | BIO 208 with a minimum grade of "C" and Reading Proficiency | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | |
| | **Credit Hours** | **10** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| PTA 200 | Clinical Education I | 3 | PTA 105 or PTA 140 with a minimum grade of "C" and Reading Proficiency | |
| PTA 206 | Physical Agents | 3 | PTA 105 or PTA 140 with a minimum grade of "C" and Reading Proficiency | |
| PTA 220 | Therapeutic Exercise and Rehabilitation Concepts I | 7 | PTA 105 or PTA 140 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **13** | | |
| **Spring** | | | | |
| PTA 230 | Therapeutic Exercise and Rehabilitation Concepts II | 3 | PTA 212 or PTA 220 with a minimum grade of "C" and Reading Proficiency | |
| PTA 240 | Health Occupation Seminar | 2 | PTA 212 or PTA 220 with a minimum grade of "C" and Reading Proficiency | |
| PTA 250 | Clinical Education II | 4 | PTA 104 or PTA 200 with a grade of "S" and Reading Proficiency | |
| PTA 260 | Clinical Education III | 4 | PTA 104 or PTA 200 with a grade of "S" and Reading Proficiency | |
| | **Credit Hours** | **13** | | |
| | **Total Credit Hours** | **66** | | |

***Note: If you take PTA 110 in the Fall, you will be able to take it at Forest Park or Wildwood. In the Spring, it will only be offered on one campus, to be determined in the late Fall based on highest need.**

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Articulation Agreements

Articulation agreements are formal partnerships between St. Louis Community College and colleges or universities that outline how completed coursework transfers toward a specific degree program. These agreements help students continue their education by ensuring the credits earned at STLCC apply toward bachelor's degree requirements at the partner institution. STLCC continually collaborates with colleges and universities to establish new agreements that support a smooth transfer process.

Below is a list of current partner institutions with active articulation agreements for the Associate in Applied Science - Physical Therapist Assistant. Some programs include links to academic plans. If a program does not have a linked plan available, students should meet with an academic advisor to obtain the appropriate plan and guidance.

## Maryville University

- Healthcare Practice Management, Bachelor of Arts
- Organizational Leadership, Bachelor of Arts
- Practice Management, Bachelor of Arts
- Rehabilitation Services, Bachelor of Science

# Practical Nursing: CP

**Certificate of Proficiency | 38 credit hours minimum**

**School of Health Professions**

**Program Website (https://stlcc.edu/programs-academics/pathways/health-professions/nursing/lpn-certificate/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

The Certificate of Proficiency in Practical Nursing prepares students to become Licensed Practical Nurses. Students learn to provide direct care for clients that is based on the nursing process. Students acquire knowledge and technical skills necessary for effective communication with clients and families.

Graduates are awarded a certificate in Practical Nursing and are eligible to apply for the Practical Nursing licensure Exam (NCLEX-PN).

The didactic and clinical components of the curriculum are interrelated to provide a strong background for the student in attaining the objectives of the program and in becoming a competent practitioner. Experience is provided in a variety of agencies including hospitals, nursing homes, clinics, and home health care settings.

The licensed practical program is (tentatively) approved by the Missouri State Board of Nursing and pending accreditation by the Accreditation Commission for Education in Nursing (ACEN).

Persons considering a career in nursing should have an interest in the health sciences and in working closely with people. In addition, they should be able to meet the academic demands of a program that requires a commitment of time, energy, and motivation to learn.

Admission to the program is contingent on meeting the established minimum criteria as defined in the nursing program handbook. Applicants also are required to complete a health history, criminal background check, and immunization record. Applicants selected for the program are required to have a physical examination.

Graduates from this program must complete the Missouri State Board of Nursing requirements for licensure. Intravenous therapy is integrated into the Practical Nursing program. Graduates are prepared for employment as IV-certified Licensed Practical Nurses upon completion of NCLEX-PN licensure examination.

"The Missouri State Board of Nursing may refuse to issue or reinstate any certificate of registration or authority, permit or license required pursuant to this chapter for one of any combination of causes stated in subsection two of this sections. "  (1-14) 1990. RSMo 335.066

**Pre-entry Requirements**

- Minimum Cumulative GPA of 2.5 in high school or 15 hours of college work 100-level or higher. Students with fewer than 15 hours of college credit must have both a 2.5 GPA in high school and a 2.5 GPA in college.
- GED Applicants: must have 15 hours of (100 level) college credits with a 2.5 GPA.
- STLCC students with at least 15 college-level credits with a 2.5 GPA will have met this requirement, regardless of the GPA at other colleges.
- College transfer students with fewer than 15 STLCC credits must have a cumulative 2.5 GPA in college-level credits earned at all colleges attended.
  - NOTE: Developmental courses (numbered below 100) will NOT be counted toward the 15 hours of college work and will NOT be included in the GPA for admission to the program.
- The 2.5 GPA MUST be maintained while awaiting enrollment.
- Test of Essential Academic Skills (TEAS) (By appointment ONLY- contact the Testing Center)
  - The TEAS test has a minimum composite score of 58.7%, taken within two years of being placed on the admissions list.
  - Minimum of eight weeks between attempts of taking the TEAS, and a maximum of three attempts in a 12 month period.
  - Additional information about the TEAS test can be found at www.atitesting.com

**Pre-Entry Courses Requirements:**

- PSY 200 General Psychology (MOTR PSYC 100)
- PSY 205 Human Growth and Development (MOTR PSYC 200)
- Math proficiency at or above MTH 140, MTH 160, MTH 161, MTH 170, MTH 185 or higher, or completion of MTH 140S with a grade of "C" or higher.
- BIO 207 Anatomy and Physiology I (MOTR LIFS 150 LAP)
- BIO 111 Introductory Biology (MOTR BIOL 100L) or CHM 101 Fundamentals of Chemistry I (MOTR CHEM 100L)
- BIO 208 Anatomy and Physiology II

**Locations.** This program is offered in its entirety at South County.

**Licensure.** This program meets the educational requirements for state licensure in Missouri. Students interested in pursuing licensure in a different state should contact the program coordinator for more information.

**Related Programs.** The Nursing Department also offers an associate in the following area:

- **Nursing, Associate in Applied Science (p. 318)**

**Cost of Attendance**.  For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.**  Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. demonstrate the role of the practical nurse by utilizing the nursing process and applying legal, ethical, and regulatory standards.
2. implement effective verbal, non-verbal, and written communication with the multi-disciplinary health care team, clients, families, and communities across the lifespan.
3. implement teaching strategies to foster learning across the clients' lifespan that facilitate health promotion and maintenance, and reduction of risks specific to clients, families, and communities across the lifespan.
4. coordinate client-centered care as part of a multidisciplinary health care team.
5. formulate self-awareness as it applies to health care concepts and promote a practice of life-long learning.

# Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Pre-Entry Requirements** | | |
| Math Proficiency at or above MTH 140 Level | | 0-3 |
| BIO 111 | Introductory Biology (MOTR BIOL 100L) | 0-5 |
| or CHM 101 | Fundamentals of Chemistry I (MOTR CHEM 100L) | |
| PSY 200 | General Psychology (MOTR PSYC 100) | 3 |
| PSY 205 | Human Growth and Development (MOTR PSYC 200) | 3 |
| BIO 207 | Anatomy and Physiology I (MOTR LIFS 150LAP) | 4 |
| BIO 208 | Anatomy and Physiology II | 4 |
| **Program Requirements** | | |
| LPN 101 | Foundations of Practical Nursing I | 9 |
| LPN 103 | Practical Vocational Concepts | 1 |
| LPN 102 | Practical Nursing Lab | 2 |
| LPN 104 | Foundations of Practical Nursing II | 9 |
| NUR 180 | Pharmacology for Nursing Practice | 3 |
| **Total Credit Hours** | | **38-46** |

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

# Pre-Entry Requirements (prior to enrolling in LPN 101)

| Code | Title | Credit Hours |
|---|---|---|
| PSY 200 | General Psychology (MOTR PSYC 100) | 3 |
| PSY 205 | Human Growth and Development (MOTR PSYC 200) | 3 |
| Math Proficiency at or above MTH 140 Level | | 0-3 |
| BIO 111 | Introductory Biology (MOTR BIOL 100L) (or college-level course equivalent) | 0-4 |
| CHM 101 | Fundamentals of Chemistry I (MOTR CHEM 100L) (or college-level course equivalent) | 0-5 |
| BIO 207 | Anatomy and Physiology I (MOTR LIFS 150LAP) (or college-level course equivalent) | 4 |
| BIO 208 | Anatomy and Physiology II | 4 |
| **Total Credit Hours** | | **14-26** |

# Full-Time Academic Plan

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| LPN 101 | Foundations of Practical Nursing I | 9 | Enrollment in the Licensed Practical Nursing Program, PSY 200, PSY 205, BIO 207, and BIO 208 with minimum grades of "C", Math Proficiency at or above MTH 140, MTH 160, MTH 161, MTH 170, MTH 185 or higher, or completion of MTH 140S with a minimum grade of "C", and Reading Proficiency | Co-requisite - LPN 102, LPN 103 |

| | | | | |
|---|---|---|---|---|
| LPN 102 | Practical Nursing Lab | 2 | Enrollment in the Licensed Practical Nursing Program, PSY 200, PSY 205, BIO 207, and BIO 208 with minimum grades of "C", Math Proficiency at or above MTH 140, MTH 160, MTH 161, MTH 170, MTH 185 or higher, or completion of MTH 140S with a minimum grade of "C", and Reading Proficiency | Co-requisite - LPN 101, LPN 103 |
| LPN 103 | Practical Vocational Concepts | 1 | Enrollment in the Licensed Practical Nursing Program, PSY 200, PSY 205, BIO 207, and BIO 208 with minimum grades of "C", and Reading Proficiency | Co-requisite - LPN 101, LPN 102 |
| | **Credit Hours** | **12** | | |
| **Spring** | | | | |
| LPN 104 | Foundations of Practical Nursing II | 9 | LPN 101 and 103 with minimum grades of "C", LPN 102 with a grade of "S", and Reading Proficiency | Co-requisite – NUR 180. Apply for LPN Licensure Exam. |
| NUR 180 | Pharmacology for Nursing Practice | 3 | NUR 151 with a minimum grade of "C", NUR 152 with a grade of "S", and Reading Proficiency; or LPN 101 and 103 with minimum grades of "C", LPN 102 with a grade of "S", and Reading Proficiency | |
| | **Credit Hours** | **12** | | |
| | **Total Credit Hours** | **24** | | |

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Precision Machining Technology: CS

**Certificate of Specialization | 17 credit hours minimum**

**School of Advanced Manufacturing, Transportation, and Hospitality Studies**

**Program Website (https://stlcc.edu/programs-academics/pathways/a-m-i-o-t/precision-machining-technology/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

The Precision Machining Technology Certificate of Specialization prepares students for entry level jobs in the machine tool trade. Students will learn to safely set up and operate milling machines, lathes, grinders and drill presses. They will also learn the basics of CNC machine set up and operation. The program is designed around the National Institute for Metalworking Skills (NIMS) credentials and prepares students for testing in seven of the level one credentials.

**Location.** This program is offered in its entirety at Florissant Valley.

**Related Program.** The Engineering Technology and Manufacturing Department offers an associate in the following area:

- **Engineering Technology, Associate in Applied Science (p. 207)**

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. use technical drawings to determine what equipment and manufacturing approach will be necessary to create a component compliant with specifications in all respects.
2. demonstrate the safe setup and operation of standard, manual and CNC machine tools.
3. evaluate part compliance with specifications by selecting and accurately using appropriate precision measuring tools.
4. demonstrate understanding of nomenclature relating to the machine tool trade, industry work expectations and the role of quality conscious trades people towards the success of the enterprise.

# Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Program Requirements** | | |
| ME 100 | Measurement, Materials and Safety | 3 |
| ME 111 | Job Planning, Benchwork & Layout | 3 |
| ME 120 | Manual Machining I | 3 |
| ME 200 | Manual Machining II | 3 |
| ME 212 | Introduction to Computer Numerical Control (CNC) Machining | 3 |
| ME 154 | Mechanical Blueprint Reading | 2 |
| **Total Credit Hours** | | **17** |

# Full-Time Academic Plan

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| ME 154 | Mechanical Blueprint Reading | 2 | Reading Proficiency or concurrent enrollment in RDG 079 | Apply for graduation. |
| ME 100 | Measurement, Materials and Safety | 3 | Departmental approval or Work Keys Applied Mathematics Level 4, or, Reading Proficiency or Work Keys Reading for Information Level 4 | Exploratory Course, Gateway Course |
| ME 111 | Job Planning, Benchwork & Layout | 3 | Reading Proficiency or departmental approval | Exploratory Course, Gateway Course, Critical Course |
| ME 120 | Manual Machining I | 3 | ME 111 with a minimum grade of "C" or departmental approval, and Reading Proficiency | |
| ME 200 | Manual Machining II | 3 | Reading Proficiency or departmental approval | |

| | | | | |
|---|---|---|---|---|
| ME 212 | Introduction to Computer Numerical Control (CNC) Machining | 3 | Reading Proficiency or departmental approval | |
| | **Credit Hours** | **17** | | |
| | **Total Credit Hours** | **17** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Radiologic Technology: AAS

**Associate in Applied Science | 73 credit hours minimum**

**School of Health Professions**

**Program Website (https://stlcc.edu/programs-academics/pathways/health-professions/radiologic-technology/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

The Radiologic Technology program prepares students for entry-level positions as radiographers (X-ray technologists). Student must attend full-time and satisfy both the didactic and clinical components to successfully complete the program.

The program is accredited by the

Joint Review Committee on Education in Radiologic Technology (JRCERT)
20 N. Wacker Drive, Suite 2850
Chicago, IL, 60606-3182
Phone number: 312-704-5300

Students learn to use complex X-ray and image processing equipment designed to record images which aid radiologists in diagnosing various health problems.

Persons interested in this program should be comfortable working with and caring for people from diverse backgrounds. They should be able to meet the academic and physical demands of the program that require a commitment of time, effort and motivation.

Students are required to complete a health history, immunization record, physical exam, essential functions acknowledgment form and drug and criminal background check prior to the first day of class. Students not passing the criminal background check and/or drug screen may be prohibited from participating in clinical education. This will prevent the student from being able to complete all program requirements for graduation.

Completion of college level medical terminology course (HIM 101 Medical Terminology and Language or equivalent) is highly recommended.

To graduate a grade of C or better is required for all math and science courses and all courses in the area of concentration.

Graduates are eligible to sit for the national certification examination administered by the American Registry of Radiologic Technologists (ARRT). Employment is available in hospital radiology departments, clinics, imaging centers, outpatient surgery centers and physician offices.

**Locations.** This program is offered in its entirety at Florissant Valley and Forest Park.

**Licensure.** This program meets the educational requirements for state licensure in the following states: Missouri and Illinois. Students interested in pursuing licensure in a different state should contact the program coordinator for more information.

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. evaluate images for appropriate positioning and image quality.
2. demonstrate the ability to adapt to difficult and trauma exams.
3. position the patient and imaging system to perform acceptable radiographic examinations and procedures.
4. maintain a safe environment.
5. provide quality patient care.
6. demonstrate ethical and professional values.
7. exhibit professional traits expected of radiologic technologists.
8. demonstrate effective written communication.
9. demonstrate effective oral communication.

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **General Education** | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 |
| COM 101 | Oral Communication I (MOTR COMM 100) | 3 |
| MTH 140 | Intermediate Algebra (or MTH 140S or higher) [1] | 3 |
| BIO 207 | Anatomy and Physiology I (MOTR LIFS 150LAP) [2] | 4 |
| BIO 208 | Anatomy and Physiology II | 4 |
| PSY 200 | General Psychology (MOTR PSYC 100) | 3 |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 |
| **Program Requirements** | | |
| XRT 101 | Radiographic Procedures I | 4 |
| XRT 102 | Radiographic Procedures II | 3 |
| XRT 103 | Radiographic Procedures III | 3 |
| XRT 104 | Principles of Radiographic Exposure I | 3 |
| XRT 105 | Principles of Radiographic Exposure II | 3 |
| XRT 107 | Radiologic Physics I | 2 |
| XRT 108 | Radiologic Physics II | 2 |
| XRT 111 | Clinical Education I | 2 |
| XRT 112 | Clinical Education II | 2 |
| XRT 116 | Summer Clinical | 3 |
| XRT 121 | Radiographic Image Evaluation I | 2 |
| XRT 122 | Radiographic Image Evaluation II | 2 |
| XRT 207 | Radiologic Pathology | 2 |
| XRT 208 | Advanced Imaging Modalities | 2 |
| XRT 209 | Radiobiology | 2 |
| XRT 211 | Radiologic Technology Capstone Course | 3 |
| XRT 212 | Professional Development in Radiography | 2 |
| XRT 213 | Clinical Education III | 3 |

| | | |
|---|---|---|
| XRT 214 | Clinical Education IV | 3 |
| XRT 215 | Clinical Education VI | 2 |
| **Total Credit Hours** | | **73** |

1 Except MTH 161, MTH 165, MTH 166, MTH 180
2 BIO 207 is a prerequisite for XRT 101 and must be completed with a grade C or better before starting the Area of Concentration courses.

Program admission requirements for students planning to enroll in the program in spring 2027:

1. All applicants must be admitted to St. Louis Community College.
2. Application to the program is selective. The prerequisites for application to this program are based on professional standards and include the following:
   - Math Proficiency: Complete ONE of the following before application to the program:
     - Placement into MTH 140 or higher
     - Completion of MTH 109 or higher-level math with a minimum grade of "C" within 2 attempts and within 5 years
   - English Proficiency: Complete ONE of the following prior application to the program:
     - Placement into ENG 101
     - Completion of ENG 101 or ENG 102 with a minimum grade of "C"
   - Science Proficiency:
     - BIO 111 , or BIO 140, or CHM 101 with a minimum grade of "C" within 2 attempts and within 5 years.
   - Minimum Math and Science cumulative GPA: 2.5 or higher on a 4.0 scale for **all** math and science courses completed at the 100-level or above.
   - Minimum cumulative GPA: Student must have and maintain a 2.5 or higher on a 4.0 scale GPA for **all** college work, regardless of the number of college credits earned.
   - Must provide documentation of a minimum of 8 hours of job shadowing in a hospital-based, general radiology (x-ray) department. Job shadowing must be completed within three years prior to application to the program. Follow the link below to access the job shadowing form.
     - View the **Radiologic Technology Program Admission Requirements checklist and the Documentation of Career Shadowing Experience form (https://stlcc.edu/pathways/health/radiologic-technology/requirements-checklist.aspx)**
     - **Information and job shadowing contacts (https://stlcc.edu/pathways/health/radiologic-technology/job-shadowing.aspx)**
     - **Admissions requirements are subject to change *without* advance notice.**
3. Prior to starting the program, all pre-entry requirements must be completed with a minimum grade of "C." The pre-entry requirements for this program include the following courses:
   - BIO 111, or BIO 140, or CHM 101
   - BIO 207
   - BIO 208
   - ENG 101 or ENG 102
   - HIM 101
   - MTH 109, or MTH 110, or MTH 110S, or MTH 120, or MTH 120S, or MTH 140, orMTH 140S
   - COM 201, or COM 101, or COM 107, or SOC 101, or PSY 200
   - Civics Requirement
4. All applicants must complete a criminal background check and drug screen through a college-approved background screening company before the beginning of the fall semester of admission. The student will be responsible for the cost of the background check and drug screen. Students not passing the criminal background check and/or drug screen may be prohibited from participating in clinical education. This will prevent the student from being able to complete all program requirements for graduation. This process will begin after the program orientation meeting in May.

Students **are required** to complete a health history, immunization record, physical exam, essential functions acknowledgment form, criminal background check, drug screen, and American Heart Association Basic Life Support (BLS) for Healthcare Providers CPR certification before the first day of class. Completing these requirements should begin immediately following the mandatory program orientation meeting in May.

# Academic Plan (Forest Park)

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

## Program Prerequisites (Must be completed with a minimum grade of "C" within five calendar years of applying to the program.)

| Code | Title | Credit Hours |
|---|---|---|
| BIO 111 | Introductory Biology (MOTR BIOL 100L) | 4-5 |
| or CHM 101 | Fundamentals of Chemistry I (MOTR CHEM 100L) | |
| **Total Credit Hours** | | **4-5** |

## Pre-Entry Requirement (Must complete with a minimum grade of "C" before enrollment into the Radiologic Technology (XRT) concentration courses)

| Code | Title | Credit Hours |
|---|---|---|
| BIO 207 | Anatomy and Physiology I (MOTR LIFS 150LAP) | 4 |
| **Total Credit Hours** | | **4** |

## Completion of all general education courses is encouraged prior to beginning program.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| BIO 208 | Anatomy and Physiology II | 4 | BIO 207 with a minimum grade of "C" and Reading Proficiency | It is strongly encouraged to take this course before entering the program. |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | It is strongly encouraged to take this course before entering the program. |
| MTH 140 | Intermediate Algebra | 3 | Satisfactory placement and Reading Proficiency | It is strongly encouraged to take this course before entering the program. |
| | **Credit Hours** | **10** | | |
| **Spring** | | | | |
| COM 101 | Oral Communication I (MOTR COMM 100) | 3 | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | It is strongly encouraged to take this course before entering the program. |
| PSY 200 | General Psychology (MOTR PSYC 100) | 3 | Reading Proficiency or concurrent enrollment in RDG 079 | It is strongly encouraged to take this course before entering the program. |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | It is strongly encouraged to take this course before entering the program. |
| | **Credit Hours** | **9** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| XRT 101 | Radiographic Procedures I | 4 | Current enrollment in the Radiologic Technology program and Reading Proficiency | Gateway Course, Critical Course |
| XRT 104 | Principles of Radiographic Exposure I | 3 | Current enrollment in the Radiologic Technology program and Reading Proficiency | Gateway Course, Critical Course |
| XRT 111 | Clinical Education I | 2 | Current enrollment in Radiologic Technology program and Reading Proficiency | Exploratory Course |
| | **Credit Hours** | **9** | | |

| | | | | |
|---|---|---|---|---|
| **Spring** | | | | |
| XRT 102 | Radiographic Procedures II | 3 | Current enrollment in the Radiologic Technology program, XRT 101 and XRT 121 with minimum grades of "C", and Reading Proficiency | |
| XRT 105 | Principles of Radiographic Exposure II | 3 | Current enrollment in the Radiologic Technology program, XRT 104 with a minimum grade of "C" and Reading Proficiency | |
| XRT 107 | Radiologic Physics I | 2 | XRT 104 and XRT 111 with minimum grades of "C" and Reading Proficiency | |
| XRT 112 | Clinical Education II | 2 | Current enrollment in the Radiologic Technology program, XRT 111 with a minimum grade of "C", and Reading Proficiency | |
| | **Credit Hours** | **10** | | |
| **Summer** | | | | |
| XRT 121 | Radiographic Image Evaluation I | 2 | Current enrollment in the Radiologic Technology program and Reading Proficiency | |
| XRT 116 | Summer Clinical | 3 | Current enrollment in the Radiologic Technology program, XRT 111 with a minimum grade of "C", and Reading Proficiency | |
| | **Credit Hours** | **5** | | |
| **Third Year** | | | | |
| **Fall** | | | | |
| XRT 213 | Clinical Education III | 3 | Current enrollment in the Radiologic Technology program, XRT 116 with a minimum grade of "C", and Reading Proficiency | |
| XRT 103 | Radiographic Procedures III | 3 | Current enrollment in the Radiologic Technology program, XRT 102 and XRT 116 with minimum grades of "C", and Reading Proficiency | |
| XRT 108 | Radiologic Physics II | 2 | XRT 105, XRT 107, and XRT 116 with minimum grades of "C" and Reading Proficiency | |
| XRT 122 | Radiographic Image Evaluation II | 2 | Current enrollment in the Radiologic Technology program, XRT 101 and XRT 121 with a minimum grade of "C", and Reading Proficiency | |
| | **Credit Hours** | **10** | | |
| **Spring** | | | | |
| XRT 207 | Radiologic Pathology | 2 | Current enrollment in the Radiologic Technology program, XRT 102 and XRT 122 with a minimum grade of "C", and Reading Proficiency | Apply for graduation. |
| XRT 208 | Advanced Imaging Modalities | 2 | XRT 105 with a minimum grade of "C" and Reading Proficiency | |
| XRT 209 | Radiobiology | 2 | XRT 103 and XRT 108 with minimum grades of "C" and Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| XRT 214 | Clinical Education IV | 3 | Current enrollment in the Radiologic Technology program, XRT 213 with a minimum grade of "C", and Reading Proficiency | |
| | **Credit Hours** | **9** | | |
| **Summer** | | | | |
| XRT 211 | Radiologic Technology Capstone Course | 3 | Current enrollment in the Radiologic Technology program, XRT 226 and XRT 223 with a minimum grade of "C", and Reading Proficiency | |
| XRT 212 | Professional Development in Radiography | 2 | XRT 207, XRT 208, XRT 209, and XRT 214 with minimum grades of "C", and Reading Proficiency | |
| XRT 215 | Clinical Education VI | 2 | XRT 214 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **7** | | |
| | **Total Credit Hours** | **69** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Academic Plan (Florissant Valley)

The Florissant Valley campus is currently seeking accreditation through Joint Review Committee on Education in Radiologic Technology (JRCERT).

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

# Program Prerequisites (Must be completed with a minimum grade of "C" within five calendar years of applying to the program.)

| Code | Title | Credit Hours |
|---|---|---|
| BIO 111 | Introductory Biology (MOTR BIOL 100L) | 4-5 |
| or CHM 101 | Fundamentals of Chemistry I (MOTR CHEM 100L) | |
| **Total Credit Hours** | | **4-5** |

## Pre-Entry Requirement (Must be completed with a minimum grade of "C" before enrollment into the Radiologic Technology (XRT) concentration courses.

| Code | Title | Credit Hours |
|---|---|---|
| BIO 207 | Anatomy and Physiology I (MOTR LIFS 150LAP) | 4 |
| **Total Credit Hours** | | **4** |

## Completion of all general education courses is encouraged prior to the beginning of the program.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Spring** | | | | |
| BIO 208 | Anatomy and Physiology II | 4 | BIO 207 with a minimum grade of "C" and Reading Proficiency | It is strongly encouraged to take this course before entering the program. |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | It is strongly encouraged to take this course before entering the program. |
| MTH 140 | Intermediate Algebra | 3 | Satisfactory placement and Reading Proficiency | It is strongly encouraged to take this course before entering the program. |
| | **Credit Hours** | **10** | | |
| **Fall** | | | | |
| COM 101 | Oral Communication I (MOTR COMM 100) | 3 | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | It is strongly encouraged to take this course before entering the program. |
| PSY 200 | General Psychology (MOTR PSYC 100) | 3 | Reading Proficiency or concurrent enrollment in RDG 079 | It is strongly encouraged to take this course before entering the program. |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | It is strongly encouraged to take this course before entering the program. |
| | **Credit Hours** | **9** | | |
| **Second Year** | | | | |
| **Spring** | | | | |
| XRT 101 | Radiographic Procedures I | 4 | Current enrollment in the Radiologic Technology program and Reading Proficiency | Gateway Course and Critical Course |
| XRT 104 | Principles of Radiographic Exposure I | 3 | Current enrollment in the Radiologic Technology program and Reading Proficiency | Gateway Course and Critical Course |
| XRT 111 | Clinical Education I | 2 | Current enrollment in Radiologic Technology program and Reading Proficiency | Exploratory Course |
| XRT 121 | Radiographic Image Evaluation I | 2 | Current enrollment in the Radiologic Technology program and Reading Proficiency | |
| | **Credit Hours** | **11** | | |

| | | | | |
|---|---|---|---|---|
| **Summer** | | | | |
| XRT 112 | Clinical Education II | 2 | Current enrollment in the Radiologic Technology program, XRT 111 with a minimum grade of "C", and Reading Proficiency | |
| | **Credit Hours** | **2** | | |
| **Fall** | | | | |
| XRT 102 | Radiographic Procedures II | 3 | Current enrollment in the Radiologic Technology program, XRT 101 and XRT 121 with minimum grades of "C", and Reading Proficiency | |
| XRT 107 | Radiologic Physics I | 2 | XRT 104 and XRT 111 with minimum grades of "C" and Reading Proficiency | |
| XRT 108 | Radiologic Physics II | 2 | XRT 105, XRT 107, and XRT 116 with minimum grades of "C" and Reading Proficiency | |
| XRT 116 | Summer Clinical | 3 | Current enrollment in the Radiologic Technology program, XRT 111 with a minimum grade of "C", and Reading Proficiency | |
| XRT 122 | Radiographic Image Evaluation II | 2 | Current enrollment in the Radiologic Technology program, XRT 101 and XRT 121 with a minimum grade of "C", and Reading Proficiency | |
| | **Credit Hours** | **12** | | |
| **Third Year** | | | | |
| **Spring** | | | | |
| XRT 103 | Radiographic Procedures III | 3 | Current enrollment in the Radiologic Technology program, XRT 102 and XRT 116 with minimum grades of "C", and Reading Proficiency | |
| XRT 105 | Principles of Radiographic Exposure II | 3 | Current enrollment in the Radiologic Technology program, XRT 104 with a minimum grade of "C" and Reading Proficiency | |
| XRT 207 | Radiologic Pathology | 2 | Current enrollment in the Radiologic Technology program, XRT 102 and XRT 122 with a minimum grade of "C", and Reading Proficiency | |
| XRT 213 | Clinical Education III | 3 | Current enrollment in the Radiologic Technology program, XRT 116 with a minimum grade of "C", and Reading Proficiency | |
| | **Credit Hours** | **11** | | |
| **Summer** | | | | |
| XRT 209 | Radiobiology | 2 | XRT 103 and XRT 108 with minimum grades of "C" and Reading Proficiency | Apply for graduation. |
| XRT 214 | Clinical Education IV | 3 | Current enrollment in the Radiologic Technology program, XRT 213 with a minimum grade of "C", and Reading Proficiency | |
| | **Credit Hours** | **5** | | |

| | | | | |
|---|---|---|---|---|
| **Fall** | | | | |
| XRT 211 | Radiologic Technology Capstone Course | 3 | Current enrollment in the Radiologic Technology program, XRT 226 and XRT 223 with a minimum grade of "C", and Reading Proficiency | |
| XRT 212 | Professional Development in Radiography | 2 | XRT 207, XRT 208, XRT 209, and XRT 214 with minimum grades of "C", and Reading Proficiency | |
| XRT 215 | Clinical Education VI | 2 | XRT 214 with a minimum grade of "C" and Reading Proficiency | |
| XRT 208 | Advanced Imaging Modalities | 2 | XRT 105 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **9** | | |
| | **Total Credit Hours** | **69** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Remote Aircraft Pilot: CS

**Certificate of Specialization | 6 credit hours minimum**

**School of Advanced Manufacturing, Transportation, and Hospitality Studies**

**Program Website (https://stlcc.edu/pathways/industrial/remote-aircraft-pilot/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

Remote Aircraft Pilot, Certificate of Specialization prepares students to pass the Federal Aviation Administration (FAA) Part 107 licensing exam and do commercial work with Unmanned Aircraft Systems (UAS) in a range of fields. This program offers comprehensive, hands-on training, preparing students for a rewarding career in this vital field.

**Locations.** This program is offered in its entirety at Florissant Valley.

**Financial Aid.** This Certificate of Specialization is not eligible for financial aid.

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program “St. Louis Community College” and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. operate UAS under FAA rules.
2. complete required FAA paperwork for UAS operations.
3. develop mission plans to customer specifications.
4. execute prepared missions.
5. generate artifacts such as geolocation data, imagery, or video.

# Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Program Requirements** | | |
| GST 102 | Introduction to Unmanned Aircraft Systems | 3 |
| GST 150 | Drone Mission Planning and Photography | 3 |
| **Total Credit Hours** | | **6** |

# Part-Time Academic Plan

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **Second Year** | | | | |
| **Fall** | | | | |
| GST 102 | Introduction to Unmanned Aircraft Systems | 3 | Reading Proficiency | Exploratory Course, Gateway Course, Critical Course. First 8-Weeks. Students are able to test for FAA part 107. |
| GST 150 | Drone Mission Planning and Photography | 3 | GST 102 with a minimum grade of "C" or FAA Part 107 license, and Reading Proficiency | Second 8-weeks. Apply for graduation. |
| | **Credit Hours** | **6** | | |
| | **Total Credit Hours** | **6** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Respiratory Care: AAS

**Associate in Applied Science | 74 credit hours minimum**

**School of Health Professions**

**Program Website (https://stlcc.edu/programs-academics/pathways/health-professions/respiratory-care/associates.aspx)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

The AAS Respiratory Care program prepares graduates with demonstrated competence in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains of respiratory care practice as performed by registered respiratory therapists (RRTs). Students learn to evaluate, treat, and manage patients with cardiopulmonary disorders in a variety of settings. Persons interested in the program should be team-oriented, compassionate individuals who derive satisfaction from helping others in time of need. They also should be able to tolerate moderate physical activity and long hours of standing, and work effectively under stress.

Graduates are eligible to take the Therapist Multiple Choice and Clinical Simulation examinations offered through the **National Board for Respiratory Care (http://www.nbrc.org)** in order to obtain the Registered Respiratory Therapy (RRT) credential.

Application to the program is selective. The prerequisites for application to this program are based on professional standards and include the following:

- Math proficiency: Complete ONE of the following prior to application to the program:
  - ACT Math subscore of 22 or higher OR SAT subscore of 540 or higher within the last 3 years
  - Place into MTH 160 or higher, excluding MTH 161, on the Accuplacer within the last 3 years
  - Completion of MTH 140, MTH 140S, or higher-level math, excluding MTH 161, with a grade of "C" or higher within the last 5 years.
- English Proficiency: Complete ONE of the following prior to application to the program:
  - English ACT score of 18 of higher OR SAT EBRW score of 500 or higher within the last 3 years.
  - Accuplacer (Next Gen) score of 250 or higher within the last 3 years OR high school GPA of 2.6 or higher
  - Placement into ENG 101 OR completion of ENG 101 (C or higher) will satisfy the English proficiency prerequisite
- Chemistry: Complete ONE of the following within 5 years from application to the program
  - Two semesters of high school chemistry with lab with a grade of "C" or higher
  - One semester of college chemistry with lab (CHM 101 or higher) with a grade of "C" or higher
- Biology:
  - BIO 111 or BIO 140 must be completed with a "C" or higher if using high school chemistry to satisfy the chemistry requirement
  - A&P I (BIO 207) must be completed with a "C" or higher within 5 years from application to the program
    - If BIO 207 was already taken over 5 years ago, BIO 208 may be taken within the last 5 years to satisfy the time frame.
  - A&P II (BIO 208) must be completed with a "C" or higher before starting the AAS respiratory care coursework

The Respiratory Care Program (Program #200050) offering an Associate's in Applied Science (AAS) degree at the Forest Park campus located at 5600 Oakland Avenue, St. Louis, MO is accredited by the **Commission on Accreditation for Respiratory Care (http://www.coarc.com)** (CoARC).

**Location.** This program is offered in its entirety at Forest Park.

**Licensure.** This program meets the educational requirements for state licensure in the following states: Missouri and Illinois. Students interested in pursuing licensure in a different state should contact the program coordinator for more information.

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. evaluate data to assess the cardiopulmonary status of a patient and appropriateness of prescribed respiratory care.
2. develop respiratory care plans in a variety of settings and modify if necessary.
3. initiate appropriate therapeutic interventions, monitor patient responses, and modify therapy to achieve goals.

4. promote cardiopulmonary wellness, disease prevention and management, and patient/family/community education.
5. perform diagnostic and therapeutic procedures in a safe and effective manner.
6. apply problem-solving strategies in the patient care setting.
7. demonstrate effective oral and written communication skills.
8. conduct themselves in an ethical and professional manner.

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

# Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Pre-Entry Requirements** | | |
| BIO 111 | Introductory Biology (MOTR BIOL 100L) | 4-5 |
| or BIO 140 | Principles of Biology I (MOTR BIOL 150L) | |
| or CHM 101 | Fundamentals of Chemistry I (MOTR CHEM 100L) | |
| BIO 207 | Anatomy and Physiology I (MOTR LIFS 150LAP) | 4 |
| BIO 208 | Anatomy and Physiology II | 4 |
| **General Education** | | |
| Written Communications Requirement (6 credit hours needed): | | 6 |
| ENG 101 | College Composition I (MOTR ENGL 100) | |
| ENG 102 | College Composition II (MOTR ENGL 200) | |
| ENG 103 | Report Writing (MOTR ENGL 110) | |
| PSY 200 | General Psychology (MOTR PSYC 100) | 3 |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 |
| **Program Requirements** | | |
| RC 100 | Foundations of Respiratory Care | 3 |
| RC 110 | Cardiopulmonary Anatomy and Physiology | 4 |
| RC 120 | Fundamentals of Respiratory Care I | 6 |
| RC 130 | Patient Assessment | 2 |
| RC 140 | Respiratory Pharmacology | 2 |
| RC 150 | Fundamentals of Respiratory Care II | 4 |
| RC 160 | Management of Respiratory Failure | 4 |
| RC 170 | Respiratory Care Clinical Practice I | 1 |
| RC 180 | Cardiopulmonary Diseases | 3 |
| RC 190 | Respiratory Care Clinical Practice II | 1 |
| RC 200 | Adult Critical Care (Change # to RC 235) | 3 |
| RC 210 | Advanced Concepts in Mechanical Ventilation | 4 |
| RC 220 | Neonatal and Pediatric Respiratory Care | 3 |
| RC 230 | Respiratory Care Clinical Practice III | 2 |
| RC 240 | Respiratory Care Specialties | 3 |
| RC 250 | Respiratory Care Capstone | 4 |
| RC 260 | Respiratory Care Clinical Practice IV | 2 |
| **Total Credit Hours** | | **75-76** |

# Program Promotion

A student in the Respiratory Care program must receive a satisfactory (minimum "C") rating in Respiratory Care didactic, laboratory, and clinical courses in order to promote through the program. If a student receives less than a "C" grade in any respiratory care course, the student will be placed on academic probation and the student will not be able to move forward in the program until that course(s) have been completed with a "C" grade or higher. Students who fail 3 or more courses in a semester will be dismissed from the program and will not be eligible for re-entry to the program. Students with 2 or more "F" grades in a semester will be dismissed from the program and will not be eligible for re-entry to the program. Students must also attain a "C" grade in all math and science general education courses to graduate from the program.

In each combined respiratory care course that has didactic and lab, the student must obtain a 75% or higher grade in the didactic and lab portions to pass the course. A student with a 70-74% didactic or lab grade will have an automatic "D" in the course. A student who has <70% didactic or lab grade will have an automatic "F" in the course.

Lab grades may consist of assignments, quizzes, lab competencies and a final lab practicum. Students must receive "satisfactory" ratings on all required lab competencies. Students are given three total attempts to pass a laboratory competency. If a student fails to receive a "satisfactory" laboratory rating on a competency after three attempts, the result will be a course failure, regardless of the didactic or overall laboratory grade. If a student misses a performance evaluation due to an absence or receives an "unsatisfactory" on their first attempt, it will be up to the student to arrange a time for making up the evaluation in question. Students will not be permitted to complete any other performance evaluations until all previous ones are satisfactorily completed. Failure to satisfactorily complete a performance evaluation in a timely manner may cause a student to receive point deductions for any subsequently missed performance evaluations.

In each respiratory care clinical course, an "unsatisfactory" rating on any skill competency (after two previous unsuccessful attempts) will result in a course failure, regardless of the overall clinical grade.

# Additional Resources

Respiratory Care Program Requirements Checklist (https://stlcc.edu/pathways/health/respiratory-care/associates/requirements-checklist.aspx)

Refer to the Respiratory Care webpage for the program handbook. (https://stlcc.edu/pathways/health/respiratory-care/associates/)

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

This plan is a suggested semester-by-semester course schedule. It is designed to keep you on track for a timely graduation. This plan is not a substitute for academic advising. Contact an advisor for further information regarding placement based on Placement exam scores, scheduling, degree requirements, and graduation requirements. **The Respiratory Care Program has additional admission criteria that must be met in order to enroll in the Respiratory courses.** Contact an advisor or the Program Coordinator for specific information.

Additional information is available at https://stlcc.edu/programs-academics/pathways/health-professions/respiratory-care/associates.aspx

## Prerequisites to Apply to the Respiratory Care Program:

1. **English Proficiency can be met by ONE of the following:**
   - English ACT score of 18 or higher **OR** SAT EBRW score of 500 or higher ***within the last 3 years;*** or
   - Accuplacer (Next Gen) score of 250 or higher ***within the last 3 years*** **OR** high school GPA of 2.6 or higher; or
   - Placement into ENG 101 **OR** completion of ENG 101 with a "C" or higher.
2. **Math Proficiency can be met by ONE of the following:**
   - ACT Math subscore of 22 or higher **OR** SAT math score of 540 or higher ***within the last 3 years***; or
   - Place into MTH 160 or higher on the Accuplacer ***within the last 3 years***; or
   - Completion of MTH 140, MTH 140S, or higher level math with a grade of "C" or higher ***within the last 5 years.***
3. **Science Prerequisites can be met by completing ALL of the following:**
   - Chemistry: Students must have completed two semesters of high school chemistry with lab **OR** one semester of college chemistry with lab (STLCC CHM 101 or higher) with a grade of "C" or higher ***within the last 5 years***
   - BIO 207 Anatomy & Physiology I with a grade of "C" or higher ***within the last 5 years*** (If BIO 207 was already taken over 5 years ago, BIO 208 may be taken within the last 5 years to satisfy the time frame.)
4. Minimum Cumulative GPA: **Students must have a GPA of 2.5** (4.0 scale) in high school or for 15 hours of college work (100 level or higher). **Students with fewer than 15 hours of college credit must have both a 2.5 GPA in high school and a 2.5 GPA in college**
   - **2.5 GPA MUST be maintained while on the waiting list.**
   - **GED Applicants:** must have 15 hours of **(100 level or higher)** college credits with a 2.5 or higher GPA
   - **STLCC students with at least 15 college-level credits with a 2.5 GPA:** will have met this requirement, regardless of the GPA at other colleges.
   - **College transfer students with fewer than 15 STLCC credits:** must have a cumulative 2.5 GPA in college-level credits earned at all colleges attended.

# Pre-Entry Requirements:

| Code | Title | Credit Hours |
|---|---|---|
| BIO 111 | Introductory Biology (MOTR BIOL 100L) (Must pass with a “C” or higher) | 4-5 |
| or BIO 140 | Principles of Biology I (MOTR BIOL 150L) | |
| or CHM 101 | Fundamentals of Chemistry I (MOTR CHEM 100L) | |
| BIO 207 | Anatomy and Physiology I (MOTR LIFS 150LAP) (Must pass with a “C” or higher) | 4 |
| BIO 208 | Anatomy and Physiology II (Must pass with a “C” or higher) | 4 |
| **Total Credit Hours** | | **12-13** |

# Full-Time Academic Plan

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| RC 100 | Foundations of Respiratory Care | 3 | Reading Proficiency | Exploratory Course |
| RC 110 | Cardiopulmonary Anatomy and Physiology | 3 | Admission to the AAS Respiratory Care or BS Respiratory Care Program, BIO 208 with a minimum grade of "C", and Reading Proficiency | Critical Course |
| RC 120 | Respiratory Care Practices I | 6 | Program Admission, BIO 208 with a minimum grade of "C", and Reading Proficiency | Gateway Course, Critical Course |
| RC 130 | Patient Assessment | 2 | Program Admission, BIO 208 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **14** | | |
| **Spring** | | | | |
| RC 140 | Respiratory Pharmacology | 2 | Concurrent or prior enrollment in RC 110 with a minimum grade of "C", and Reading Proficiency | |
| RC 150 | Fundamentals of Respiratory Care II | 4 | RC 110, RC 125 or RC 120, and RC 135 or RC 130 with minimum grades of "C", and Reading Proficiency | |
| RC 160 | Mechanical Ventilation I | 4 | RC 110, RC 125 or RC 120, and RC 135 or RC 130 with minimum grades of "C", and Reading Proficiency | Gateway Course |
| RC 170 | Respiratory Care Clinical Practice I | 1 | RC 100, RC 110, RC 120, RC 130 all with minimum grades of "C", and Reading Proficiency | Gateway Course |
| Choose one of the following: | | 3 | | Six credits in ENG 101, 102 or 103 are required. |
| ENG 101 | College Composition I (MOTR ENGL 100) | | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| ENG 102 | College Composition II (MOTR ENGL 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| ENG 103 | Report Writing (MOTR ENGL 110) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **14** | | |

| | | | | |
|---|---|---|---|---|
| **Summer** | | | | |
| RC 180 | Cardiopulmonary Diseases | 3 | RC 125 or RC 120 and RC 140 with minimum grades of "C", and Reading Proficiency | |
| RC 190 | Respiratory Care Clinical Practice II | 1 | RC 140, RC 150, RC 160, RC 170 all with minimum grades of "C", and Reading Proficiency | |
| Choose one of the following: | | 3 | | Six credits in ENG 101, 102 or 103 are required. |
| ENG 101 | College Composition I (MOTR ENGL 100) | | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| ENG 102 | College Composition II (MOTR ENGL 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| ENG 103 | Report Writing (MOTR ENGL 110) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **7** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| RC 200 | Adult Critical Care | 3 | RC 180 with grade of "C" or higher, and Reading Proficiency | |
| RC 210 | Mechanical Ventilation II | 4 | RC 150, RC 160, and RC 180 with grades of "C" or higher, and Reading Proficiency | |
| RC 220 | Neonatal and Pediatric Respiratory Care | 3 | RC 180 and RC 190 with grades of "C" or higher, and Reading Proficiency | |
| RC 230 | Respiratory Care Clinical Practice III | 2 | RC 180 and RC 190 with grades of "C" or higher, and Reading Proficiency | |
| | **Credit Hours** | **12** | | |
| **Spring** | | | | |
| RC 240 | Respiratory Care Specialties | 3 | RC 180 with a grade of "C" or higher, and Reading Proficiency | Apply for graduation. |
| RC 250 | Respiratory Care Capstone | 4 | RC 200, RC 210, RC 220, RC 230 all with grades of "C" or higher, and Reading Proficiency | Complete National Board Review Exams. |
| RC 260 | Respiratory Care Clinical Practice IV | 2 | RC 200, RC 210, RC 220, RC 230 all with grades of "C" or higher, and Reading Proficiency | |
| PSY 200 | General Psychology (MOTR PSYC 100) | 3 | Reading Proficiency or concurrent enrollment in RDG 079 | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | |
| | **Credit Hours** | **15** | | |
| | **Total Credit Hours** | **62** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Respiratory Care: BS

**Bachelor of Science | 120 credit hours minimum**

**School of Health Professions**

**Program Website (https://stlcc.edu/programs-academics/pathways/health-professions/respiratory-care/bachelors.aspx)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

The Bachelor of Science, Respiratory Care Program graduates students with demonstrated competence in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains of respiratory care practice as performed by registered respiratory therapists (RRTs). The program will prepare leaders for the field of respiratory care by including curricular content with objectives related to the acquisition of skills in one or more of the following: management, education, research, and advanced clinical practice (which may include an area of clinical specialization).

During the first two years of coursework the student will obtain an Associate in Arts General Transfer Studies degree - Health Science Pathway. The AA is 60 credit hours of oral/written communication, social/behavioral sciences, mathematics, biomedical/natural science, medical terminology, and biomedical ethics. Admission into the third year of the program (professional program) is selective - admission to the college does not guarantee entrance into the BSRC program. A maximum of 16 students will be admitted into the professional program each fall semester. The following are requirements that must be met to apply to the third year of the program (professional program):

1. Complete a minimum of 30 credit hours of the AA General Transfer Studies - Health Science Pathway
    a. All AA - Health Science coursework must be completed with "C" or higher grades.
    b. The cumulative GPA of the AA General Transfer Studies - Health Science Pathway must be a 2.5 or higher.
2. Science and math coursework must be completed within five years of starting the professional RC coursework. Exceptions to this time frame can be made on a case-by-case basis at the discretion of the Program Director.

Once the application is accepted, students will be notified of their placement on the admissions list via their STLCC email accounts. Students must complete the following to change their major to the BS in Respiratory Care degree.

1. Completion of the remainder hours needed to obtain the AA General Transfer Studies - Health Science Pathway.
    a. All required coursework must be completed with a "C" or higher grade.
    b. The cumulative GPA of the AA General Transfer Studies - Health Science Pathway must be a 2.5 or higher.
2. Attend a mandatory orientation in June.
3. Complete a criminal background check and drug screen.

Additional requirements for clinical courses (RC 300, RC 340, RC 380, RC 400, and RC 450) include immunizations, TB testing, and the AHA Basic Life Support certification. Detailed information on these requirements can be found in the Respiratory Care Student Handbook.

The professional program starts in the fall each year, is four semesters and an intervening summer, and is 60 credit hours. Students must attend the program full-time, and all courses must be taken at STLCC. To progress through the professional program, a student must maintain a grade of "C" or higher in each required course in the major. If a student receives a "D" or "F" grade in any required course, the student must re-apply for admission for the next academic year. More information can be found in the Respiratory Care Student Handbook.

To graduate with a Bachelor of Science in Respiratory Care (BSRC), students must complete the 120 credit hours required as stated in the academic plan. Additional graduation requirements include completion of the AHA ACLS certification and a minimum of 20 professional credit points received throughout the program major. Please see the Respiratory Care Student Handbook for more information on these requirements.

Graduates of the program are eligible to take the **National Board for Respiratory Care (http://www.nbrc.org/)** credentialing exams in order to obtain the Registered Respiratory Therapy (RRT) credential.

The Bachelor of Science in Respiratory Care Program, CoARC program #210050 at Florissant Valley holds Provisional Accreditation from the **Commission on Accreditation for Respiratory Care (https://coarc.com/)**.

This status signifies that a program with an Approval of Intent has demonstrated sufficient compliance with the Standards (through submission of an acceptable Provisional Accreditation Self Study Report (PSSR) and any other documentation required by the CoARC, as well as satisfactory completion of an initial on-site visit), to be allowed to admit students. It is recognized as an accredited program by the National Board for Respiratory Care (NBRC), which provides enrolled students who complete the program with eligibility for the Respiratory Care Credentialing Examination(s). The program will remain on Provisional Accreditation until it achieves Continuing Accreditation

**Locations.** This program is offered in its entirety at Florissant Valley.

**Licensure.** This program meets the educational requirements for state licensure in the following states: Missouri and Illinois. Students interested in pursuing licensure in a different state should contact the program director for more information.

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. assess the cardiopulmonary status of a patient and prescribed respiratory care.
2. perform assessment, diagnostic, and therapeutic skills in a safe and effective manner.
3. develop and modify respiratory care plans.
4. apply the principles of professional and ethical behavior consistent with the expectations as a registered respiratory therapist.
5. communicate patient information and respiratory care plans to physicians and other healthcare providers.
6. educate patients to promote cardiopulmonary wellness and disease management.
7. critique professional scientific literature.
8. discuss leadership principles and problems as they relate to the management of a respiratory care department.

**The Bachelor of Science in Respiratory Care Program, CoARC program #210050 at Florissant Valley holds Provisional Accreditation from the Commission on Accreditation for Respiratory Care (https://coarc.com/).**

This status signifies that a program with an Approval of Intent has demonstrated sufficient compliance with the Standards (through submission of an acceptable Provisional Accreditation Self-Study Report (PSSR) and any other documentation required by the CoARC, as well as satisfactory completion of an initial on-site visit), to be allowed to admit students. It is recognized as an accredited program by the National Board for Respiratory Care (NBRC), which provides enrolled students who complete the program with eligibility for the Respiratory Care Credentialing Examination(s). The program will remain on Provisional Accreditation until it achieves Continuing Accreditation.

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

# Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **General Education** | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 |
| ENG 102 | College Composition II (MOTR ENGL 200) | 3 |

| | | |
|---|---|---|
| or ENG 103 | Report Writing (MOTR ENGL 110) | |
| SOC 101 | Introduction to Sociology (MOTR SOCI 101) | 3 |
| or COM 200 | Communication Between Cultures (MOTR SBSC 101) | |
| COM 107 | Public Speaking (MOTR COMM 110) | 3 |
| or COM 101 | Oral Communication I (MOTR COMM 100) | |
| BIO 111 | Introductory Biology (MOTR BIOL 100L) | 4 |
| BIO 207 | Anatomy and Physiology I (MOTR LIFS 150LAP) | 4 |
| BIO 208 | Anatomy and Physiology II | 4 |
| BIO 203 | General Microbiology I | 4 |
| MTH 160 | Precalculus Algebra (MOTR MATH 130) | 3 |
| or MTH 160S | Precalculus Algebra with Support (MOTR MATH 130) | |
| MTH 180 | Introductory Statistics (MOTR MATH 110) | 3 |
| or MTH 180S | Introductory Statistics with Support (MOTR MATH 110) | |
| PHL 109 | Bio-Medical Ethics | 3 |
| PSY 200 | General Psychology (MOTR PSYC 100) | 3 |
| CHM 101 | Fundamentals of Chemistry I (MOTR CHEM 100L) | 5 |
| or CHM 105 | General Chemistry I (MOTR CHEM 150L) | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 |
| XXX xxx | CORE 42 Humanities/Fine Arts Electives (p. 416) | 9 |
| HIM 101 | Medical Terminology and Language | 3 |
| **Professional Coursework** | | |
| RC 110 | Cardiopulmonary Anatomy and Physiology | 3 |
| RC 120 | Fundamentals of Respiratory Care I | 6 |
| RC 130 | Patient Assessment | 2 |
| RC 140 | Respiratory Pharmacology | 2 |
| RC 300 | Clinical Practice I | 1 |
| RC 150 | Fundamentals of Respiratory Care II | 4 |
| RC 160 | Management of Respiratory Failure | 4 |
| RC 180 | Cardiopulmonary Diseases | 3 |
| COM 117 | Health Communication | 3 |
| RC 340 | Clinical Practice II | 1 |
| RC 240 | Respiratory Care Specialties | 3 |
| RC 310 | Neonatal Respiratory Care | 2 |
| RC 380 | Clinical Practice III | 1 |
| RC 200 | Adult Critical Care (Change # to RC 235) | 3 |
| RC 210 | Advanced Concepts in Mechanical Ventilation | 4 |
| RC 320 | Pediatric Respiratory Care | 2 |
| RC 330 | Neonatal and Pediatric Respiratory Care Lab | 1 |
| RC 400 | Clinical Practice III | 2 |
| RC 410 | Principles of Leadership in Respiratory Care | 3 |
| RC 420 | Respiratory Care Research | 3 |
| RC 430 | Health Education and Disease Management | 3 |
| RC 440 | Respiratory Care Capstone | 1 |
| RC 450 | Clinical Practice IV | 3 |
| **Total Credit Hours** | | **120** |

**The Bachelor of Science in Respiratory Care Program, CoARC program #210050 at Florissant Valley holds Provisional Accreditation from the Commission on Accreditation for Respiratory Care (https://coarc.com/).**

This status signifies that a program with an Approval of Intent has demonstrated sufficient compliance with the Standards (through submission of an acceptable Provisional Accreditation Self-Study Report (PSSR) and any other documentation required by the CoARC, as well as satisfactory completion of an initial on-site visit), to be allowed to admit students. It is recognized as an accredited program by the National Board for Respiratory Care (NBRC), which provides enrolled

students who complete the program with eligibility for the Respiratory Care Credentialing Examination(s). The program will remain on Provisional Accreditation until it achieves Continuing Accreditation.

# Full-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| Choose one of the following: | | 3 | | |
| SOC 101 | Introduction to Sociology (MOTR SOCI 101) | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| COM 200 | Communication Between Cultures (MOTR SBSC 101) | | Reading Proficiency | |
| Choose one of the following: | | 3 | | Must be completed within 5 years of application. |
| MTH 180 | Introductory Statistics (MOTR MATH 110) | | Satisfactory scores on placement test, and Reading Proficiency | |
| MTH 180S | Introductory Statistics with Support (MOTR MATH 110) | | Reading Proficiency | |
| BIO 111 | Introductory Biology (MOTR BIOL 100L) | 4 | Reading Proficiency or concurrent enrollment in RDG 079 | Must be completed within 5 years of application. |
| XXX xxx | CORE 42 Humanities/Fine Arts Elective (p. 416) | 3 | | |
| | **Credit Hours** | **16** | | |
| **Spring** | | | | |
| Choose one of the following: | | 3 | | |
| COM 107 | Public Speaking (MOTR COMM 110) | | Reading Proficiency | |
| COM 101 | Oral Communication I (MOTR COMM 100) | | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | |
| Choose one of the following: | | 3 | | Must be completed within 5 years of application. |
| MTH 160 | Precalculus Algebra (MOTR MATH 130) | | MTH 140 (or MTH 140S) with a minimum grade of "C" or satisfactory score on placement test, and Reading Proficiency | |
| MTH 160S | Precalculus Algebra with Support (MOTR MATH 130) | | Satisfactory score on placement test and Reading Proficiency | |
| ENG 102<br>or 103 | College Composition II (MOTR ENGL 200)<br>or Report Writing (MOTR ENGL 110) | 3 | ENG 101 with a minimum grade of "C" and Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| HIM 101 | Medical Terminology and Language | 3 | Reading Proficiency | |
| PSY 200 | General Psychology (MOTR PSYC 100) | 3 | Reading Proficiency or concurrent enrollment in RDG 079 | |
| | **Credit Hours** | **15** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| BIO 207 | Anatomy and Physiology I (MOTR LIFS 150LAP) | 4 | BIO 111 or BIO 140 or CHM 101 with a minimum grade of "C", or college-level course equivalent, and Reading Proficiency | Must be completed within 5 years of application. |
| Choose one of the following: | | 5 | | Must be completed within 5 years of application. |
| CHM 101 | Fundamentals of Chemistry I (MOTR CHEM 100L) | | MTH 109 or higher with a minimum grade of "C" or placement into a higher math class, and Reading Proficiency or concurrent enrollment in RDG 079 | |
| CHM 105 | General Chemistry I (MOTR CHEM 150L) | | MTH 140 (or MTH 140S or at least one and a half years of high school algebra) and CHM 101 with a minimum grade of "C" or one year of high school chemistry, and Reading Proficiency | |
| PHL 109 | Bio-Medical Ethics | 3 | Reading Proficiency | |
| XXX xxx | CORE 42 Humanities/Fine Arts Elective (p. 416) | 3 | | |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| BIO 203 | General Microbiology I | 4 | BIO 111 or BIO 140 with a minimum grade of "C", or college-level course equivalent, and Reading Proficiency | Must be completed within 5 years of application. |
| XXX xxx | Social & Beahvioral Sciences: Civics Requirement (p. 416) | 3 | | |
| BIO 208 | Anatomy and Physiology II | 4 | BIO 207 with a minimum grade of "C" and Reading Proficiency | Gateway Course. Must be completed within 5 years of application. |
| XXX xxx | CORE 42 Humanities/Fine Arts Elective (p. 416) | 3 | | |
| | **Credit Hours** | **14** | | |
| **Third Year** | | | | |
| **Fall** | | | | |
| RC 110 | Cardiopulmonary Anatomy and Physiology | 3 | Admission to the AAS Respiratory Care or BS Respiratory Care Program, BIO 208 with a minimum grade of "C", and Reading Proficiency | Gateway Course, Critical Course |
| RC 120 | Respiratory Care Practices I | 6 | Program Admission, BIO 208 with a minimum grade of "C", and Reading Proficiency | Exploratory Course, Critical Course |
| RC 130 | Patient Assessment | 2 | Program Admission, BIO 208 with a minimum grade of "C" and Reading Proficiency | |
| RC 140 | Respiratory Pharmacology | 2 | Concurrent or prior enrollment in RC 110 with a minimum grade of "C", and Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| RC 300 | Clinical Practice I | 1 | Admission to the BSRC program, and Reading Proficiency | |
| | **Credit Hours** | **14** | | |
| **Spring** | | | | |
| RC 150 | Fundamentals of Respiratory Care II | 4 | RC 110, RC 125 or RC 120, and RC 135 or RC 130 with minimum grades of "C", and Reading Proficiency | |
| RC 160 | Mechanical Ventilation I | 4 | RC 110, RC 125 or RC 120, and RC 135 or RC 130 with minimum grades of "C", and Reading Proficiency | |
| RC 180 | Cardiopulmonary Diseases | 3 | RC 125 or RC 120 and RC 140 with minimum grades of "C", and Reading Proficiency | |
| RC 340 | Clinical Practice II | 1 | RC 125 or RC 120, RC 135 or RC 130, RC 140, and RC 300 all with grades of "C" or higher, and Reading Proficiency | |
| COM 117 | Health Communication | 3 | Reading Proficiency | |
| | **Credit Hours** | **15** | | |
| **Summer** | | | | |
| RC 240 | Respiratory Care Specialties | 3 | RC 180 with a grade of "C" or higher, and Reading Proficiency | |
| RC 310 | Neonatal Respiratory Care | 2 | RC 150, RC 160, RC 180 all with grades of "C" or higher, and Reading Proficiency | |
| RC 380 | Clinical Practice III | 1 | RC 150, RC 160, RC 180, and RC 340 all with grades of "C" or higher, and Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| **Fourth Year** | | | | |
| **Fall** | | | | |
| RC 320 | Pediatric Respiratory Care | 2 | RC 310 and RC 380 with grades of "C" or higher, and Reading Proficiency | |
| RC 330 | Neonatal and Pediatric Respiratory Care Lab | 1 | RC 310 and RC 380 with grades of "C" or higher, and Reading Proficiency | |
| RC 200 | Adult Critical Care | 3 | RC 180 with grade of "C" or higher, and Reading Proficiency | |
| RC 210 | Mechanical Ventilation II | 4 | RC 150, RC 160, and RC 180 with grades of "C" or higher, and Reading Proficiency | |
| RC 400 | Clinical Practice IV | 2 | RC 310, RC 380, and RC 240 all with grades of "C" or higher, and Reading Proficiency | |
| | **Credit Hours** | **12** | | |
| **Spring** | | | | |
| RC 410 | Respiratory Care Management | 3 | RC 200, RC 210, RC 320, and RC 400 all with grades of "C" or higher, and Reading Proficiency | |
| RC 420 | Respiratory Care Research | 3 | RC 200, RC 210, RC 320, and RC 400 all with grades of "C" or higher, and Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| RC 430 | Health Education and Disease Management | 3 | RC 200, RC 210, RC 320, and RC 400 all with grades of "C" or higher, and Reading Proficiency | |
| RC 440 | Respiratory Care Capstone | 1 | RC 200, RC 210, RC 320, and RC 400 all with grades of "C" or higher, and Reading Proficiency | |
| RC 450 | Clinical Practice V | 3 | RC 200, RC 210, RC 330, RC 320, RC 400 all with grades of "C" or higher, and Reading Proficiency | |
| | **Credit Hours** | **13** | | |
| | **Total Credit Hours** | **120** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Skilled Trades Industrial Occupations Technology: AAS

**Associate in Applied Science | 60 credit hours minimum**

**School of Advanced Manufacturing, Transportation, and Hospitality Studies**

**Program Website (https://stlcc.edu/programs-academics/pathways/a-m-i-o-t/skilled-trades-industrial-occupations-technology/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

Skilled Trades Industrial Occupations Technology allows individuals to earn an associate degree tailored to their occupational/career needs. College credit for technical areas may be earned through established articulation agreements with apprenticeship programs recognized by the college or individualized programs of study developed in consultation with the Engineering and Technology department. In addition, on-the-job training and/or supervised work-based learning may be included in the student's degree program.

**Location.** This program is offered in its entirety at Florissant Valley.

**Related Program.** The Engineering Technology and Manufacturing Department offers a certificate in the following area:

- **Skilled Trades Industrial Occupations Technology, Certificate of Specialization (p. 386)**

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. use appropriate oral, written, and technological strategies to facilitate workplace communication.
2. demonstrate knowledge of basic industrial technical processes and procedures, including, when appropriate, knowledge of legal standards that promote public health, safety, and general welfare.
3. solve technical workplace problems using best practices to meet industry regulations and requirements.

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

# Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **General Education** | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 |
| or ENG 102 | College Composition II (MOTR ENGL 200) | |
| COM 101 | Oral Communication I (MOTR COMM 100) | 3 |
| or COM 107 | Public Speaking (MOTR COMM 110) | |
| MTH 108 | Elementary Applied Mathematics (or higher) | 3 |
| XXX xxx | Social and Behavioral Sciences: Civics Requirement (p. 416) | 3 |
| XXX xxx | Social and Behavioral Sciences: MOTR Elective (p. 416) | 3 |
| **Program Requirements** | | |
| Select one of the following tracks: | | 45 |
| Apprenticeship Program Agreement | | |
| Technical Electives: BE, BIC, CE, EE, EGR, ESC, GE, GST, ME, SKT, WEL, and MGT prefixes | | |
| **Total Credit Hours** | | **60** |

## Tracks

### Apprenticeship Program Agreement

Where St. Louis Community College has an established agreement with an apprenticeship training program, students will receive credit in accordance with the terms of that agreement. Depending on the amount of credit awarded, additional department-approved technical courses may be required to fulfill program requirements. Credit for apprenticeship training programs will be transcribed according to the college's procedures in effect at the time of evaluation.

### Technical Electives

This option allows students to tailor their area of concentration within the skilled trades by selecting courses from the following department prefixes: BE, BIC, CE, EE, EGR, ESC, GE, GST, ME, SKT, WEL, and MGT. A minimum of 9 credit hours must be completed within a single prefix. The student's program of study must be developed in consultation with the Engineering and Technology department.

# Full-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| Select one of the following: | | 3 | | ENG 101 and ENG 102 may be taken in person or online. |

| | | | | |
|---|---|---|---|---|
| ENG 101 | College Composition I (MOTR ENGL 100) | | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| ENG 102 | College Composition II (MOTR ENGL 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| XXX xxx | Technical Electives | 3 | | Choose from BE, BIC, CE, EE, EGR, ESC, GE, GST, ME, MGT, SKT, and WEL prefixes. |
| XXX xxx | Technical Electives | 3 | | Choose from BE, BIC, CE, EE, EGR, ESC, GE, GST, ME, MGT, SKT, and WEL prefixes. |
| XXX xxx | Technical Electives | 3 | | Choose from BE, BIC, CE, EE, EGR, ESC, GE, GST, ME, MGT, SKT, and WEL prefixes. |
| XXX xxx | Technical Electives | 3 | | Choose from BE, BIC, CE, EE, EGR, ESC, GE, GST, ME, MGT, SKT, and WEL prefixes. |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| MTH 108 | Elementary Applied Mathematics (or higher) | 3 | Reading Proficiency | Higher level math course permitted; Course may be taken in person or online or substituted through Prior Learning Assessment for Math embedded in training. |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | |
| XXX xxx | Technical Electives | 3 | | Choose from BE, BIC, CE, EE, EGR, ESC, GE, GST, ME, MGT, SKT, and WEL prefixes. |
| XXX xxx | Technical Electives | 3 | | Choose from BE, BIC, CE, EE, EGR, ESC, GE, GST, ME, MGT, SKT, and WEL prefixes. |
| XXX xxx | Technical Electives | 3 | | Choose from BE, BIC, CE, EE, EGR, ESC, GE, GST, ME, MGT, SKT, and WEL prefixes. |
| | **Credit Hours** | **15** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| Select one of the following: | | 3 | | COM 101 and COM 107 may be taken in person or online. |
| COM 101 | Oral Communication I (MOTR COMM 100) | | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | |
| COM 107 | Public Speaking (MOTR COMM 110) | | Reading Proficiency | |
| XXX xxx | Technical Electives | 3 | | Choose from BE, BIC, CE, EE, EGR, ESC, GE, GST, ME, MGT, SKT, and WEL prefixes. |
| XXX xxx | Technical Electives | 3 | | Choose from BE, BIC, CE, EE, EGR, ESC, GE, GST, ME, MGT, SKT, and WEL prefixes. |

| | | | | |
|---|---|---|---|---|
| XXX xxx | Technical Electives | 3 | | Choose from BE, BIC, CE, EE, EGR, ESC, GE, GST, ME, MGT, SKT, and WEL prefixes. |
| XXX xxx | Technical Electives | 3 | | Choose from BE, BIC, CE, EE, EGR, ESC, GE, GST, ME, MGT, SKT, and WEL prefixes. |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| XXX xxx | MOTR Social & Behavioral Sciences Elective (p. 416) | 3 | | This may be taken in person or online. Apply for graduation. |
| XXX xxx | Technical Electives | 3 | | Choose from BE, BIC, CE, EE, EGR, ESC, GE, GST, ME, MGT, SKT, and WEL prefixes. |
| XXX xxx | Technical Electives | 3 | | Choose from BE, BIC, CE, EE, EGR, ESC, GE, GST, ME, MGT, SKT, and WEL prefixes. |
| XXX xxx | Technical Electives | 3 | | Choose from BE, BIC, CE, EE, EGR, ESC, GE, GST, ME, MGT, SKT, and WEL prefixes. |
| XXX xxx | Technical Electives | 3 | | Choose from BE, BIC, CE, EE, EGR, ESC, GE, GST, ME, MGT, SKT, and WEL prefixes. |
| | **Credit Hours** | **15** | | |
| | **Total Credit Hours** | **60** | | |

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Carpenter Training Council Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| Select one of the following: | | 3 | | ENG 101 and ENG 102 may be taken in person or online. |
| ENG 101 | College Composition I (MOTR ENGL 100) | | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| ENG 102 | College Composition II (MOTR ENGL 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| SKT 107 | Carpenter Joint Apprenticeship Program: Introduction to Carpentry | 2 | | |
| SKT 110 | Carpenter Joint Apprenticeship Program: Interior Trim | 3 | | |
| SKT 109 | Carpenter Joint Apprenticeship Program: Concrete Form Building | 3 | | |
| SKT 108 | Carpenter Joint Apprenticeship Program: Workplace Learning I | 2 | | |
| | **Credit Hours** | **13** | | |
| **Spring** | | | | |
| MTH 108 | Elementary Applied Mathematics (or higher) | 3 | Reading Proficiency | Higher level math course permitted; Course may be taken in person or online or substituted through Prior Learning Assessment for Math embedded in training. |
| SKT 115 | Carpenter Joint Apprenticeship Program: Health and Safety I | 3 | | |
| SKT 116 | Carpenter Joint Apprenticeship Program: Residential Framing | 4 | | |
| SKT 113 | Carpenter Joint Apprenticeship Program: Basic Blueprint Reading | 2 | | |
| SKT 114 | Carpenter Joint Apprenticeship Program: Workplace Learning II | 4 | SKT 108 with a minimum grade of "C" | |
| | **Credit Hours** | **16** | | |
| **Summer** | | | | |
| SKT 119 | Carpenter Joint Apprenticeship Program: Workplace Learning III | 4 | | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | Civics may be taken in person or online. |
| | **Credit Hours** | **7** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| Select one of the following: | | 3 | | COM 101 and COM 107 may be taken in person or online. |
| COM 101 | Oral Communication I (MOTR COMM 100) | | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | |
| COM 107 | Public Speaking (MOTR COMM 110) | | Reading Proficiency | |
| SKT 118 | Carpenter Joint Apprenticeship Program: Millwright Basics | 3 | | |
| SKT 117 | Carpenter Joint Apprenticeship Program: Welding Basics | 3 | | |
| SKT 122 | Carpenter Joint Apprenticeship Training: Workplace Learning IV | 4 | SKT 119 with a minimum grade of "C" | |
| | **Credit Hours** | **13** | | |
| **Spring** | | | | |
| XXX xxx | MOTR Social & Behavioral Sciences Elective (p. 416) | 3 | | This may be taken in person or online. |
| SKT 120 | Carpenter Joint Apprenticeship Program: Health and Safety II | 2 | | Apply for graduation. |

| | | | | |
|---|---|---|---|---|
| SKT 121 | Carpenter Joint Apprenticeship Program: Health and Safety III | 2 | SKT 120 with a minimum grade of "C" | |
| SKT 123 | Carpenter Joint Apprenticeship Training: Workplace Learning V | 4 | SKT 122 with a minimum grade of "C" | |
| | **Credit Hours** | **11** | | |
| | **Total Credit Hours** | **60** | | |

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Electrical Training Alliance Full-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| Select one of the following: | | 3 | | ENG 101 and ENG 102 may be taken in person or online. |
| ENG 101 | College Composition I (MOTR ENGL 100) | | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| ENG 102 | College Composition II (MOTR ENGL 200) | | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| SKT 106 | Electrical Training Alliance: Introduction to Electrical Professions | 2 | | |
| SKT 111 | Electrical Training Alliance: Electrical Conduit Fabrication | 2 | | |
| SKT 112 | Electrical Training Alliance: Workplace Learning I | 6 | | |
| | **Credit Hours** | **13** | | |
| **Spring** | | | | |
| MTH 108 | Elementary Applied Mathematics (or higher) | 3 | Reading Proficiency | Higher level math course permitted; Course may be taken in person or online or substituted through Prior Learning Assessment for Math embedded in training. |
| SKT 136 | Electrical Training Alliance: Electrical Training Code and Practices I | 2 | | |
| SKT 130 | Electrical Training Alliance: Direct Current Theory | 3 | | |

| | | | | |
|---|---|---|---|---|
| SKT 131 | Electrical Training Alliance: Workplace Learning II | 7 | SKT 112 with a minimum grade of "C" | |
| | **Credit Hours** | **15** | | |
| **Summer** | | | | |
| SKT 135 | Electrical Training Alliance: Electrical Blueprint Reading | 2 | | |
| SKT 138 | Electrical Training Alliance: AC Systems and Theory | 3 | | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | This may be taken in person or online. |
| | **Credit Hours** | **8** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| Select one of the following: | | 3 | | COM 101 and COM 107 may be taken in person or online. |
| COM 101 | Oral Communication I (MOTR COMM 100) | | Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency | |
| COM 107 | Public Speaking (MOTR COMM 110) | | Reading Proficiency | |
| SKT 137 | Electrical Training Alliance: Electrical Code and Practices II | 2 | | |
| SKT 132 | Electrical Training Alliance: Workplace Learning III | 7 | SKT 131 with a minimum grade of "C" | |
| | **Credit Hours** | **12** | | |
| **Spring** | | | | |
| SKT 134 | Electrical Training Alliance: Transformers | 2 | | Apply for graduation. |
| SKT 133 | Electrical Training Alliance: Workplace Learning IV | 7 | SKT 132 with a minimum grade of "C" | |
| XXX xxx | MOTR Social & Behavioral Sciences Elective (p. 416) | 3 | | This may be taken in person or online. |
| | **Credit Hours** | **12** | | |
| | **Total Credit Hours** | **60** | | |

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Skilled Trades Industrial Occupations Technology: CS

**Certificate of Specialization | 12 credit hours minimum**

**School of Advanced Manufacturing, Transportation, and Hospitality Studies**

**Program Website (https://stlcc.edu/programs-academics/pathways/a-m-i-o-t/skilled-trades-industrial-occupations-technology/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

## Program Description:

This program provides industrial technical education and training associated with a variety of skilled trades.

Dependent on the skilled trade classification, an additional 9-12 credit hours of technical courses are required for the particular Certificate of Specialization. The courses must be selected in consultation with the program advisor.

Skilled trades classifications and emphasis areas may include:

- Electronics
- PLC/Robotics
- Sheet Metal Worker Manufacturing
- Assembly Worker

**Location.** This program is offered in its entirety at Florissant Valley.

**Related Programs.** The Engineering Technology and Manufacturing Department offers an associate in the following area:

- **Skilled Trades Industrial Occupations Technology, Associate in Applied Science (p. 379)**

**Financial Aid.** This Certificate of Specialization is not eligible for financial aid.

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

## At the completion of the program, students are expected to:

1. differentiate fact from opinion in regard to industrial technical subjects for occupational training or retraining.
2. complete occupational tasks at an entry-level proficiency for industrial training or retraining.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Program Requirements** | | |
| MTH 108 | Elementary Applied Mathematics (or higher) | 3 |
| Select one of the following tracks: | | 9-12 |
| Electronics | | |
| PLC/Robotics | | |
| Sheet Metal Worker | | |
| Manufacturing Assembly Worker | | |
| **Total Credit Hours** | | **12-15** |

# Full-Time Academic Plan

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| MTH 108 | Elementary Applied Mathematics (or higher) | 3 | Reading Proficiency | Apply for graduation. |
| XXX xxx | Focus Area Electives | 9-12 | | Select from one of the following focus areas: Electronics, PLC/Robotics, Sheet Metal Worker, or Manufacturing Assembly Worker. |
| | **Credit Hours** | **12-15** | | |
| | **Total Credit Hours** | **12-15** | | |

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Software Developer: AAS

**Associate in Applied Science | 61 credit hours minimum**

**School of Business and Computer Information Technology**

**Program Website (https://stlcc.edu/programs-academics/pathways/s-t-e-m/software-developer/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

The Associate in Applied Science Software Developer degree provides students with the technical skills and knowledge required to design, write, implement, secure, and maintain software systems in the enterprise. It teaches the principles of software architecture and data analysis using current development tools, languages, and environments. The courses on Web design, software developer, and database focus areas enable students to pursue in-depth skill and expertise within one of these three areas while preparing for industry recognized certifications. The courses in the program provide a combination of distance learning and classroom-based in-depth hands-on skills development. Students completing the program are prepared for a variety of industry certification exams as well as entry-level employment as a software developer, or to pursue advanced studies in software design and development.

**Locations.** This program is offered at Forest Park and Meramec by taking a mixture of face-to-face and online courses.

**Related Programs.** The Computer and Information Technology Department offers certificates in the following areas:

- **Database Developer, Certificate of Proficiency (p. 173)**
- **Web Developer, Certificate of Specialization (p. 409)**

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program “St. Louis Community College” and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. demonstrate technical skills based on industry standards to design, write, implement, secure, and maintain software systems.
2. modify existing software incorporating new functions to support specific project goals.
3. develop software solutions following industry best practices as a member of a team.
4. demonstrate proficiency in a selected focus area (Language, Web, or Database) by developing a portfolio of projects completed during courses related to the focus area.
5. perform data analysis by importing, manipulating, documenting, and displaying source information.

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

# Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **General Education** | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 |
| ENG 103 | Report Writing (MOTR ENGL 110) | 3 |
| or ENG 102 | College Composition II (MOTR ENGL 200) | |
| **Mathematics Requirement: Choose One** | | **3** |
| MTH 180 | Introductory Statistics (MOTR MATH 110) (or MTH 180S) | |
| MTH 160 | Precalculus Algebra (MOTR MATH 130) (or MTH 160S) | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 |
| COM 103 | Small Group Communication (MOTR COMM 125) | 3 |
| or COM 112 | Argumentation and Debate (MOTR COMM 220) | |
| or COM 201 | Interpersonal Communication (MOTR COMM 120) | |
| or PSY 200 | General Psychology (MOTR PSYC 100) | |
| or PHL 102 | Introduction to Logic (MOTR PHIL 101) | |
| **Program Requirements** | | |
| IS 101 | | 1 |
| or IS 123 | Introduction to Windows | |
| or IS 136 | Internet Fundamentals | |
| or IS 165 | Computer Applications-Microsoft Project | |
| IS 120 | Introduction to Excel | 1 |
| IS 112 | | 3 |
| IS 139 | Web Publishing | 3 |
| IS 153 | C# Programming I | 4 |
| or IS 187 | Java Programming I | |
| or IS 167 | C++ Programming I | |
| or IS 166 | C# and Java Programming I | |
| IS 168 | GitHub for Developers | 1 |
| IS 225 | Database Management | 4 |
| IS 229 | Unix/Linux I | 3 |
| IS 237 | Fundamentals of Information Assurance/Security - CompTIA Security+ | 3 |
| IS 280 | Python | 3 |
| IS 241 | Systems Analysis and Design | 3 |
| **Select one of the following options:** | | **8** |
| C# Language | | |
| IS 253<br>& IS 283 | C# Programming II<br>and C# Programming III | |
| Java Language | | |
| IS 287<br>& IS 288 | Java Programming II<br>and Java Programming III | |

| | | |
|---|---|---|
| C++ and Analytics | | |
| IS 267 | C++ Programming II | |
| IS 257 | Big Data Analytics | |
| & IS 165 | and Computer Applications-Microsoft Project | |
| **Select one of the following tracks:** | | **9** |
| Language Track | | |
| Web Track | | |
| Database Track | | |
| **Total Credit Hours** | | **61** |

## Tracks

### Language Track

| Code | Title | Credit Hours |
|---|---|---|
| IS 290 | C# Frameworks: .NET Web App Framework | 3 |
| or IS 294 | | |
| or IS 296 | Java Frameworks: Spring | |
| IS 265 | Web Scripting Technologies | 3 |
| IS 285 | Excel for Data Analytics | 3 |
| or IS 291 | Workplace Learning: Computer and Information Technology | |
| or IS 294 | | |
| or IS 296 | Java Frameworks: Spring | |
| or IT 121 | Secure E-Commerce | |
| **Total Credit Hours** | | **9** |

### Web Track

| Code | Title | Credit Hours |
|---|---|---|
| IS 141 | Graphics for the Web | 3 |
| IS 265 | Web Scripting Technologies | 3 |
| IS 142 | Web Development | 3 |
| or IS 290 | C# Frameworks: .NET Web App Framework | |
| or IS 291 | Workplace Learning: Computer and Information Technology | |
| or IT 121 | Secure E-Commerce | |
| **Total Credit Hours** | | **9** |

### Database Track

| Code | Title | Credit Hours |
|---|---|---|
| IS 240 | SQL and Database Development | 3 |
| IS 285 | Excel for Data Analytics | 3 |
| IS 257 | Big Data Analytics | 3 |
| or IS 268 | SQL Server Programming | |
| or IS 276 | | |
| or IS 291 | Workplace Learning: Computer and Information Technology | |
| or IT 121 | Secure E-Commerce | |
| **Total Credit Hours** | | **9** |

# Database Track Full-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| IS 280 | Python | 3 | Reading Proficiency | Gateway Course. See IS Dept. for advising options. |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| IS 153<br>or 167<br>or 187<br>or 166 | C# Programming I<br>or C++ Programming I<br>or Java Programming I<br>or C# and Java Programming I | 4 | Reading Proficiency | Critical Course. Speak to Program Coordinator before enrolling in IS 166. |
| IS 120 | Introduction to Excel | 1 | Reading Proficiency | |
| IS 139 | Web Publishing | 3 | Reading Proficiency | |
| Choose one of the following: | | 1 | | |
| IS 101 | | | | |
| IS 123 | Introduction to Windows | | | |
| IS 136 | Internet Fundamentals | | Reading Proficiency | |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| Choose one of the following: | | 3 | | MTH 160S or MTH 180S will also fulfill this requirement, but only 3 credits will apply toward the degree. |
| MTH 160 | Precalculus Algebra (MOTR MATH 130) | | MTH 140 (or MTH 140S) with a minimum grade of "C" or satisfactory score on placement test, and Reading Proficiency | |
| MTH 180 | Introductory Statistics (MOTR MATH 110) | | Satisfactory scores on placement test, and Reading Proficiency | |
| IS 168 | GitHub for Developers | 1 | Reading Proficiency | 1st or 2nd 8-week class |
| IS 112 | | 3 | | |
| Choose one of the following: | | 4 | | |
| IS 253 | C# Programming II | | IS 153 or IS 167 or IS 187 or IS 166 with minimum grades of "C" and Reading Proficiency | |
| IS 287 | Java Programming II | | IS 153 or IS 167 or IS 187 or IS 256 or IS 166 with minimum grades of "C" and Reading Proficiency | |
| IS 267 | C++ Programming II | | IS 167 with a minimum grade of "C" and Reading Proficiency | |
| IS 225 | Database Management | 4 | Reading Proficiency | Critical Course |
| | **Credit Hours** | **15** | | |
| **Summer** | | | | |
| IS 229 | Unix/Linux I | 3 | Reading Proficiency | |
| | **Credit Hours** | **3** | | |

| | | | | |
|---|---|---|---|---|
| **Second Year** | | | | |
| **Fall** | | | | |
| ENG 102<br>or 103 | College Composition II (MOTR ENGL 200)<br>or Report Writing (MOTR ENGL 110) | 3 | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| IS 237 | Fundamentals of Information Assurance/Security - CompTIA Security + | 3 | IT 102 or IS 229 with a minimum grade of "C" and Reading Proficiency | |
| IS 257 | Big Data Analytics | 3 | IS 225 with a minimum grade of "C" and Reading Proficiency | |
| IS 165 | Computer Applications-Microsoft Project | 1 | Reading Proficiency | |
| IS 240 | SQL and Database Development | 3 | IS 225 with a minimum grade of "C" and Reading Proficiency | |
| Choose one of the following: | | 3 | | |
| COM 103 | Small Group Communication (MOTR COMM 125) | | Reading Proficiency | |
| COM 112 | Argumentation and Debate (MOTR COMM 220) | | Reading Proficiency | |
| COM 201 | Interpersonal Communication (MOTR COMM 120) | | Reading Proficiency | |
| PSY 200 | General Psychology (MOTR PSYC 100) | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| PHL 102 | Introduction to Logic (MOTR PHIL 101) | | Reading Proficiency | |
| | **Credit Hours** | **16** | | |
| **Spring** | | | | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | |
| IS 241 | Systems Analysis and Design | 3 | IS 153 or IS 167 or IS 187 with a minimum grade of "C", and IS 139 or IS 253 or IS 267 or IS 287 with a minimum grade of "C", and Reading Proficiency | Capstone class: Take at end of program. |
| IS 285 | Excel for Data Analytics | 3 | IS 120 with a minimum grade of "C", concurrent or prior enrollment in MTH 160 (or MTH 160S) or MTH 180 (or MTH 180S) with a minimum grade of "C", and Reading Proficiency | Apply for graduation. |
| Choose one of the following: | | 3 | | Other 3 credit elective options are: IS 291, IT 121, or IS 257 (if not already completed). |
| IS 268 | SQL Server Programming | | IS 240 with a minimum grade of "C" and Reading Proficiency | |
| IS 276 | | | | |
| | **Credit Hours** | **12** | | |
| | **Total Credit Hours** | **61** | | |

**Students should take** CIT 112 **in place of IS 112.**

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Database Track Part-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| IS 153<br>or 167<br>or 187<br>or 166 | C# Programming I<br>or C++ Programming I<br>or Java Programming I<br>or C# and Java Programming I | 4 | Reading Proficiency | Critical Course. Speak to your program coordinator before enrolling in IS 166. |
| IS 120 | Introduction to Excel | 1 | Reading Proficiency | |
| IS 139 | Web Publishing | 3 | Reading Proficiency | |
| Choose one of the following: | | 1 | | |
| IS 101 | | | | |
| IS 123 | Introduction to Windows | | | |
| IS 136 | Internet Fundamentals | | Reading Proficiency | |
| | **Credit Hours** | **9** | | |
| **Spring** | | | | |
| IS 168 | GitHub for Developers | 1 | Reading Proficiency | First or Second 8-week class |
| Choose one of the following: | | 4 | | |
| IS 253 | C# Programming II | | IS 153 or IS 167 or IS 187 or IS 166 with minimum grades of "C" and Reading Proficiency | |
| IS 287 | Java Programming II | | IS 153 or IS 167 or IS 187 or IS 256 or IS 166 with minimum grades of "C" and Reading Proficiency | |
| IS 267 | C++ Programming II | | IS 167 with a minimum grade of "C" and Reading Proficiency | |
| IS 225 | Database Management | 4 | Reading Proficiency | Critical Course |
| | **Credit Hours** | **9** | | |
| **Summer** | | | | |
| IS 229 | Unix/Linux I | 3 | Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| | **Credit Hours** | **6** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| IS 280 | Python | 3 | Reading Proficiency | Gateway Course |
| IS 257 | Big Data Analytics | 3 | IS 225 with a minimum grade of "C" and Reading Proficiency | |
| IS 165 | Computer Applications-Microsoft Project | 1 | Reading Proficiency | |
| Choose one of the following: | | 3 | | |
| COM 103 | Small Group Communication (MOTR COMM 125) | | Reading Proficiency | |
| COM 112 | Argumentation and Debate (MOTR COMM 220) | | Reading Proficiency | |
| COM 201 | Interpersonal Communication (MOTR COMM 120) | | Reading Proficiency | |
| PSY 200 | General Psychology (MOTR PSYC 100) | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| PHL 102 | Introduction to Logic (MOTR PHIL 101) | | Reading Proficiency | |
| | **Credit Hours** | **10** | | |
| **Spring** | | | | |
| IS 240 | SQL and Database Development | 3 | IS 225 with a minimum grade of "C" and Reading Proficiency | |
| Choose one of the following: | | 3 | | |
| MTH 160 | Precalculus Algebra (MOTR MATH 130) | | MTH 140 (or MTH 140S) with a minimum grade of "C" or satisfactory score on placement test, and Reading Proficiency | |
| MTH 180 | Introductory Statistics (MOTR MATH 110) | | Satisfactory scores on placement test, and Reading Proficiency | |
| IS 112 | | 3 | | |
| | **Credit Hours** | **9** | | |
| **Summer** | | | | |
| ENG 102<br>or 103 | College Composition II (MOTR ENGL 200)<br>or Report Writing (MOTR ENGL 110) | 3 | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| IS 237 | Fundamentals of Information Assurance/Security - CompTIA Security + | 3 | IT 102 or IS 229 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| **Third Year** | | | | |
| **Fall** | | | | |
| IS 241 | Systems Analysis and Design | 3 | IS 153 or IS 167 or IS 187 with a minimum grade of "C", and IS 139 or IS 253 or IS 267 or IS 287 with a minimum grade of "C", and Reading Proficiency | Capstone class: Take at end of program. |

| | | | | |
|---|---|---|---|---|
| Choose one of the following: | | 3 | | |
| IS 268 | SQL Server Programming | | IS 240 with a minimum grade of "C" and Reading Proficiency | |
| IS 276 | | | | |
| IS 285 | Excel for Data Analytics | 3 | IS 120 with a minimum grade of "C", concurrent or prior enrollment in MTH 160 (or MTH 160S) or MTH 180 (or MTH 180S) with a minimum grade of "C", and Reading Proficiency | |
| | **Credit Hours** | **9** | | |
| **Spring** | | | | |
| XXX xxx | Social & Behavioral Sciences: Civics (p. 416) | 3 | | Apply for graduation. |
| | **Credit Hours** | **3** | | |
| | **Total Credit Hours** | **61** | | |

**Students should take** CIT 112 **in place of IS 112.**

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Language Track Full-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| IS 280 | Python | 3 | Reading Proficiency | Gateway Course. See IS Dept. for Advising options. |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| IS 153<br>or 167<br>or 187<br>or 166 | C# Programming I<br>or C++ Programming I<br>or Java Programming I<br>or C# and Java Programming I | 4 | Reading Proficiency | Critical Course. Speak to Program Coordinator before enrolling in IS 166. |
| IS 120 | Introduction to Excel | 1 | Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| IS 139 | Web Publishing | 3 | Reading Proficiency | |
| Choose one of the following: | | 1 | | |
| IS 101 | | | | |
| IS 123 | Introduction to Windows | | | |
| IS 136 | Internet Fundamentals | | Reading Proficiency | |
| IS 165 | Computer Applications-Microsoft Project | | Reading Proficiency | |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| Choose one of the following: | | 3 | | MTH 160S or MTH 180S will also fulfill this requirement, but only 3 credits will apply toward the degree. |
| MTH 160 | Precalculus Algebra (MOTR MATH 130) | | MTH 140 (or MTH 140S) with a minimum grade of "C" or satisfactory score on placement test, and Reading Proficiency | |
| MTH 180 | Introductory Statistics (MOTR MATH 110) | | Satisfactory scores on placement test, and Reading Proficiency | |
| IS 168 | GitHub for Developers | 1 | Reading Proficiency | 1st or 2nd 8-week class |
| IS 112 | | 3 | | |
| Choose one of the following: | | 4 | | |
| IS 253 | C# Programming II | | IS 153 or IS 167 or IS 187 or IS 166 with minimum grades of "C" and Reading Proficiency | |
| IS 287 | Java Programming II | | IS 153 or IS 167 or IS 187 or IS 256 or IS 166 with minimum grades of "C" and Reading Proficiency | |
| IS 267 | C++ Programming II | | IS 167 with a minimum grade of "C" and Reading Proficiency | |
| IS 225 | Database Management | 4 | Reading Proficiency | Critical Course |
| | **Credit Hours** | **15** | | |
| **Summer** | | | | |
| IS 229 | Unix/Linux I | 3 | Reading Proficiency | |
| | **Credit Hours** | **3** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| ENG 102<br>or 103 | College Composition II (MOTR ENGL 200)<br>or Report Writing (MOTR ENGL 110) | 3 | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| IS 237 | Fundamentals of Information Assurance/Security - CompTIA Security + | 3 | IT 102 or IS 229 with a minimum grade of "C" and Reading Proficiency | |
| Choose one of the following: | | 4 | | |
| IS 283 | C# Programming III | | IS 253 with a minimum grade of "C" and Reading Proficiency | |
| IS 288 | Java Programming III | | IS 287 with a minimum grade of "C" and Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| IS 257 & IS 165 | Big Data Analytics and Computer Applications-Microsoft Project | | IS 225 with a minimum grade of "C" and Reading Proficiency | |
| IS 265 | Web Scripting Technologies | 3 | IS 139 with a minimum grade of "C" and Reading Proficiency | |
| Choose one of the following: | | 3 | | |
| COM 103 | Small Group Communication (MOTR COMM 125) | | Reading Proficiency | |
| COM 112 | Argumentation and Debate (MOTR COMM 220) | | Reading Proficiency | |
| COM 201 | Interpersonal Communication (MOTR COMM 120) | | Reading Proficiency | |
| PSY 200 | General Psychology (MOTR PSYC 100) | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| PHL 102 | Introduction to Logic (MOTR PHIL 101) | | Reading Proficiency | |
| | **Credit Hours** | **16** | | |
| **Spring** | | | | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | |
| IS 241 | Systems Analysis and Design | 3 | IS 153 or IS 167 or IS 187 with a minimum grade of "C", and IS 139 or IS 253 or IS 267 or IS 287 with a minimum grade of "C", and Reading Proficiency | Capstone class: Take at end of program. |
| Choose one of the following: | | 3 | | |
| IS 290 | C# Frameworks: .NET Web App Framework | | IS 283 with a minimum grade of "C" and Reading Proficiency | |
| IS 294 | | | | |
| IS 296 | Java Frameworks: Spring | | IS 288 with a minimum grade of "C" and Reading Proficiency | |
| Choose one of the following: | | 3 | | Apply for graduation. |
| IS 285 | Excel for Data Analytics | | IS 120 with a minimum grade of "C", concurrent or prior enrollment in MTH 160 (or MTH 160S) or MTH 180 (or MTH 180S) with a minimum grade of "C", and Reading Proficiency | |
| IS 294 | | | | |
| IS 296 | Java Frameworks: Spring | | IS 288 with a minimum grade of "C" and Reading Proficiency | |
| IS 291 | Workplace Learning: Computer and Information Technology | | Enrollment in an IS program, department approval, and Reading Proficiency | |
| IT 121 | Secure E-Commerce | | IS 229 and IS 237, both with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **12** | | |
| | **Total Credit Hours** | **61** | | |

**Students should take** CIT 112 **in place of IS 112.**

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Language Track Part-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| Choose one of the following: | | 1 | | |
| IS 101 | | | | |
| IS 123 | Introduction to Windows | | | |
| IS 136 | Internet Fundamentals | | Reading Proficiency | |
| IS 165 | Computer Applications-Microsoft Project | | Reading Proficiency | |
| IS 153<br>or 167<br>or 187<br>or 166 | C# Programming I<br>or C++ Programming I<br>or Java Programming I<br>or C# and Java Programming I | 4 | Reading Proficiency | Critical Course. Speak to your program coordinator before enrolling in IS 166. |
| IS 120 | Introduction to Excel | 1 | Reading Proficiency | |
| IS 139 | Web Publishing | 3 | Reading Proficiency | |
| | **Credit Hours** | **9** | | |
| **Spring** | | | | |
| IS 168 | GitHub for Developers | 1 | Reading Proficiency | First or Second 8-week class |
| IS 225 | Database Management | 4 | Reading Proficiency | Critical Course |
| Choose one of the following: | | 4 | | |
| IS 253 | C# Programming II | | IS 153 or IS 167 or IS 187 or IS 166 with minimum grades of "C" and Reading Proficiency | |
| IS 287 | Java Programming II | | IS 153 or IS 167 or IS 187 or IS 256 or IS 166 with minimum grades of "C" and Reading Proficiency | |
| IS 267 | C++ Programming II | | IS 167 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **9** | | |
| **Summer** | | | | |
| IS 229 | Unix/Linux I | 3 | Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| | **Credit Hours** | **6** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| IS 280 | Python | 3 | Reading Proficiency | Gateway Course |
| Choose one of the following: | | 4 | | |
| IS 283 | C# Programming III | | IS 253 with a minimum grade of "C" and Reading Proficiency | |
| IS 288 | Java Programming III | | IS 287 with a minimum grade of "C" and Reading Proficiency | |
| IS 257<br>& IS 165 | Big Data Analytics<br>and Computer Applications-Microsoft Project | | IS 225 with a minimum grade of "C" and Reading Proficiency | |
| Choose one of the following: | | 3 | | |
| COM 103 | Small Group Communication (MOTR COMM 125) | | Reading Proficiency | |
| COM 112 | Argumentation and Debate (MOTR COMM 220) | | Reading Proficiency | |
| COM 201 | Interpersonal Communication (MOTR COMM 120) | | Reading Proficiency | |
| PSY 200 | General Psychology (MOTR PSYC 100) | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| PHL 102 | Introduction to Logic (MOTR PHIL 101) | | Reading Proficiency | |
| | **Credit Hours** | **10** | | |
| **Spring** | | | | |
| IS 237 | Fundamentals of Information Assurance/Security - CompTIA Security + | 3 | IT 102 or IS 229 with a minimum grade of "C" and Reading Proficiency | |
| Choose one of the following: | | 3 | | |
| MTH 160 | Precalculus Algebra (MOTR MATH 130) | | MTH 140 (or MTH 140S) with a minimum grade of "C" or satisfactory score on placement test, and Reading Proficiency | |
| MTH 180 | Introductory Statistics (MOTR MATH 110) | | Satisfactory scores on placement test, and Reading Proficiency | |
| IS 112 | | 3 | | |
| | **Credit Hours** | **9** | | |
| **Summer** | | | | |
| ENG 102<br>or 103 | College Composition II (MOTR ENGL 200)<br>or Report Writing (MOTR ENGL 110) | 3 | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| IS 265 | Web Scripting Technologies | 3 | IS 139 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **6** | | |

| | | | | |
|---|---|---|---|---|
| **Third Year** | | | | |
| **Fall** | | | | |
| IS 241 | Systems Analysis and Design | 3 | IS 153 or IS 167 or IS 187 with a minimum grade of "C", and IS 139 or IS 253 or IS 267 or IS 287 with a minimum grade of "C", and Reading Proficiency | Capstone class: Take at end of program. |
| Choose one of the following: | | 3 | | |
| IS 290 | C# Frameworks: .NET Web App Framework | | IS 283 with a minimum grade of "C" and Reading Proficiency | |
| IS 294 | | | | |
| IS 296 | Java Frameworks: Spring | | IS 288 with a minimum grade of "C" and Reading Proficiency | |
| Choose one of the following: | | 3 | | |
| IS 285 | Excel for Data Analytics | | IS 120 with a minimum grade of "C", concurrent or prior enrollment in MTH 160 (or MTH 160S) or MTH 180 (or MTH 180S) with a minimum grade of "C", and Reading Proficiency | |
| IS 294 | | | | |
| IS 296 | Java Frameworks: Spring | | IS 288 with a minimum grade of "C" and Reading Proficiency | |
| IS 291 | Workplace Learning: Computer and Information Technology | | Enrollment in an IS program, department approval, and Reading Proficiency | |
| IT 121 | Secure E-Commerce | | IS 229 and IS 237, both with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **9** | | |
| **Spring** | | | | |
| XXX xxx | Social & Behavioral Sciences: Civics (p. 416) | 3 | | Apply for graduation. |
| | **Credit Hours** | **3** | | |
| | **Total Credit Hours** | **61** | | |

**Students should take** CIT 112 **in place of IS 112.**

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Web Track Full-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| IS 280 | Python | 3 | Reading Proficiency | Gateway Course. See IS Dept. for advising options. |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| IS 153<br>or 167<br>or 187<br>or 166 | C# Programming I<br>or C++ Programming I<br>or Java Programming I<br>or C# and Java Programming I | 4 | Reading Proficiency | Critical Course. Speak to Program Coordinator before enrolling in IS 166. |
| IS 120 | Introduction to Excel | 1 | Reading Proficiency | |
| IS 139 | Web Publishing | 3 | Reading Proficiency | |
| Choose one of the following: | | 1 | | |
| IS 101 | | | | |
| IS 123 | Introduction to Windows | | | |
| IS 136 | Internet Fundamentals | | Reading Proficiency | |
| IS 165 | Computer Applications-Microsoft Project | | Reading Proficiency | |
| | **Credit Hours** | **15** | | |
| **Spring** | | | | |
| Choose one of the following: | | 3 | | MTH 160S or MTH 180S will also fulfill this requirement, but only 3 credits will apply toward the degree. |
| MTH 160 | Precalculus Algebra (MOTR MATH 130) | | MTH 140 (or MTH 140S) with a minimum grade of "C" or satisfactory score on placement test, and Reading Proficiency | |
| MTH 180 | Introductory Statistics (MOTR MATH 110) | | Satisfactory scores on placement test, and Reading Proficiency | |
| IS 168 | GitHub for Developers | 1 | Reading Proficiency | 1st or 2nd 8-week class |
| IS 112 | | 3 | | |
| Choose one of the following: | | 4 | | |
| IS 253 | C# Programming II | | IS 153 or IS 167 or IS 187 or IS 166 with minimum grades of "C" and Reading Proficiency | |
| IS 287 | Java Programming II | | IS 153 or IS 167 or IS 187 or IS 256 or IS 166 with minimum grades of "C" and Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| IS 267 | C++ Programming II | | IS 167 with a minimum grade of "C" and Reading Proficiency | |
| IS 225 | Database Management | 4 | Reading Proficiency | Critical Course |
| | **Credit Hours** | **15** | | |
| **Summer** | | | | |
| IS 229 | Unix/Linux I | 3 | Reading Proficiency | |
| | **Credit Hours** | **3** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| ENG 102<br>or 103 | College Composition II (MOTR ENGL 200)<br>or Report Writing (MOTR ENGL 110) | 3 | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| IS 237 | Fundamentals of Information Assurance/Security - CompTIA Security + | 3 | IT 102 or IS 229 with a minimum grade of "C" and Reading Proficiency | |
| Choose one of the following: | | 4 | | |
| IS 283 | C# Programming III | | IS 253 with a minimum grade of "C" and Reading Proficiency | |
| IS 288 | Java Programming III | | IS 287 with a minimum grade of "C" and Reading Proficiency | |
| IS 257<br>& IS 165 | Big Data Analytics<br>and Computer Applications-Microsoft Project | | IS 225 with a minimum grade of "C" and Reading Proficiency | |
| IS 141 | Graphics for the Web | 3 | IS 139 with a minimum grade of "C" and Reading Proficiency | |
| Choose one of the following: | | 3 | | |
| COM 103 | Small Group Communication (MOTR COMM 125) | | Reading Proficiency | |
| COM 112 | Argumentation and Debate (MOTR COMM 220) | | Reading Proficiency | |
| COM 201 | Interpersonal Communication (MOTR COMM 120) | | Reading Proficiency | |
| PSY 200 | General Psychology (MOTR PSYC 100) | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| PHL 102 | Introduction to Logic (MOTR PHIL 101) | | Reading Proficiency | |
| | **Credit Hours** | **16** | | |
| **Spring** | | | | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | |
| IS 241 | Systems Analysis and Design | 3 | IS 153 or IS 167 or IS 187 with a minimum grade of "C", and IS 139 or IS 253 or IS 267 or IS 287 with a minimum grade of "C", and Reading Proficiency | Capstone class: Take at end of program. |
| IS 265 | Web Scripting Technologies | 3 | IS 139 with a minimum grade of "C" and Reading Proficiency | Apply for graduation. |
| Choose one of the following: | | 3 | | |

| | | | | |
|---|---|---|---|---|
| IS 142 | Web Development | | IS 153 or IS 167 or IS 187 with a minimum grade of "C", IS 139 with a minimum grade of "C", concurrent or prior enrollment in IS 265 with a minimum grade of "C", and Reading Proficiency | |
| IS 290 | C# Frameworks: .NET Web App Framework | | IS 283 with a minimum grade of "C" and Reading Proficiency | |
| IS 291 | Workplace Learning: Computer and Information Technology | | Enrollment in an IS program, department approval, and Reading Proficiency | |
| IT 121 | Secure E-Commerce | | IS 229 and IS 237, both with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **12** | | |
| | **Total Credit Hours** | **61** | | |

**Students should take** CIT 112 **in place of IS 112.**

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Web Track Part-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| IS 153<br>or 167<br>or 187<br>or 166 | C# Programming I<br>or C++ Programming I<br>or Java Programming I<br>or C# and Java Programming I | 4 | Reading Proficiency | Critical Course. Speak to Program Coordinator before enrolling in IS 166. |
| IS 120 | Introduction to Excel | 1 | Reading Proficiency | |
| IS 139 | Web Publishing | 3 | Reading Proficiency | |
| Choose one of the following: | | 1 | | |
| IS 101 | | | | |
| IS 123 | Introduction to Windows | | | |
| IS 136 | Internet Fundamentals | | Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| IS 165 | Computer Applications-Microsoft Project | | Reading Proficiency | |
| | **Credit Hours** | **9** | | |
| **Spring** | | | | |
| IS 168 | GitHub for Developers | 1 | Reading Proficiency | First or Second 8-week class |
| Choose one of the following: | | 4 | | |
| IS 253 | C# Programming II | | IS 153 or IS 167 or IS 187 or IS 166 with minimum grades of "C" and Reading Proficiency | |
| IS 287 | Java Programming II | | IS 153 or IS 167 or IS 187 or IS 256 or IS 166 with minimum grades of "C" and Reading Proficiency | |
| IS 267 | C++ Programming II | | IS 167 with a minimum grade of "C" and Reading Proficiency | |
| IS 225 | Database Management | 4 | Reading Proficiency | Critical Course |
| | **Credit Hours** | **9** | | |
| **Summer** | | | | |
| IS 229 | Unix/Linux I | 3 | Reading Proficiency | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | |
| | **Credit Hours** | **6** | | |
| **Second Year** | | | | |
| **Fall** | | | | |
| IS 280 | Python | 3 | Reading Proficiency | Gateway Course |
| IS 141 | Graphics for the Web | 3 | IS 139 with a minimum grade of "C" and Reading Proficiency | |
| Choose one of the following: | | 3 | | |
| COM 103 | Small Group Communication (MOTR COMM 125) | | Reading Proficiency | |
| COM 112 | Argumentation and Debate (MOTR COMM 220) | | Reading Proficiency | |
| COM 201 | Interpersonal Communication (MOTR COMM 120) | | Reading Proficiency | |
| PSY 200 | General Psychology (MOTR PSYC 100) | | Reading Proficiency or concurrent enrollment in RDG 079 | |
| PHL 102 | Introduction to Logic (MOTR PHIL 101) | | Reading Proficiency | |
| | **Credit Hours** | **9** | | |
| **Spring** | | | | |
| IS 237 | Fundamentals of Information Assurance/Security - CompTIA Security + | 3 | IT 102 or IS 229 with a minimum grade of "C" and Reading Proficiency | |
| Choose one of the following: | | 3 | | |
| MTH 160 | Precalculus Algebra (MOTR MATH 130) | | MTH 140 (or MTH 140S) with a minimum grade of "C" or satisfactory score on placement test, and Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| MTH 180 | Introductory Statistics (MOTR MATH 110) | | Satisfactory scores on placement test, and Reading Proficiency | |
| IS 112 | | 3 | | |
| | **Credit Hours** | **9** | | |
| **Summer** | | | | |
| ENG 102<br>or 103 | College Composition II (MOTR ENGL 200)<br>or Report Writing (MOTR ENGL 110) | 3 | ENG 101 with a minimum grade of "C" and Reading Proficiency | |
| IS 265 | Web Scripting Technologies | 3 | IS 139 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **6** | | |
| **Third Year** | | | | |
| **Fall** | | | | |
| IS 241 | Systems Analysis and Design | 3 | IS 153 or IS 167 or IS 187 with a minimum grade of "C", and IS 139 or IS 253 or IS 267 or IS 287 with a minimum grade of "C", and Reading Proficiency | Capstone class: Take at end of program. |
| Choose one of the following: | | 3 | | |
| IS 142 | Web Development | | IS 153 or IS 167 or IS 187 with a minimum grade of "C", IS 139 with a minimum grade of "C", concurrent or prior enrollment in IS 265 with a minimum grade of "C", and Reading Proficiency | |
| IS 290 | C# Frameworks: .NET Web App Framework | | IS 283 with a minimum grade of "C" and Reading Proficiency | |
| IS 291 | Workplace Learning: Computer and Information Technology | | Enrollment in an IS program, department approval, and Reading Proficiency | |
| IT 121 | Secure E-Commerce | | IS 229 and IS 237, both with a minimum grade of "C" and Reading Proficiency | |
| Choose one of the following: | | 4 | | |
| IS 283 | C# Programming III | | IS 253 with a minimum grade of "C" and Reading Proficiency | |
| IS 288 | Java Programming III | | IS 287 with a minimum grade of "C" and Reading Proficiency | |
| IS 257<br>& IS 165 | Big Data Analytics<br>and Computer Applications-<br>Microsoft Project | | IS 225 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **10** | | |
| **Spring** | | | | |
| XXX xxx | Social & Behavioral Sciences: Civics (p. 416) | 3 | | Apply for graduation. |
| | **Credit Hours** | **3** | | |
| | **Total Credit Hours** | **61** | | |

**Students should take** CIT 112 **in place of IS 112.**

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Articulation Agreements

Articulation agreements are formal partnerships between St. Louis Community College and colleges or universities that outline how completed coursework transfers toward a specific degree program. These agreements help students continue their education by ensuring the credits earned at STLCC apply toward bachelor's degree requirements at the partner institution. STLCC continually collaborates with colleges and universities to establish new agreements that support a smooth transfer process.

Below is a list of current partner institutions with active articulation agreements for the Associate in Applied Science - Software Developer. Some programs include links to academic plans. If a program does not have a linked plan available, students should meet with an academic advisor to obtain the appropriate plan and guidance.

## Webster University

- Computer Science with an Emphasis in Software Developer, Bachelor of Science

# Surgical Technology: AAS

**Associate in Applied Science | 63 credit hours minimum**

**School of Health Professions**

**Program Website (https://stlcc.edu/programs-academics/pathways/health-professions/surgical-technology/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

The Surgical Technology Associate in Applied Science program prepares students for entry level positions as surgical technologists through classroom instruction, laboratory skill practice, and clinical experience.

Students will gain theoretical knowledge of the surgical environment and develop skills necessary to prepare supplies and equipment, to maintain aseptic conditions, and to assist surgeons and the surgical team by passing instrumentation during operations.

Persons interested in this program should possess a stable temperament, manual dexterity, physical stamina, and the ability to integrate and prioritize a variety of activities.

Students are required to complete a health history, immunization record, physical exam and a drug and criminal background check prior to attending hospital clinical education.

Employment opportunities include hospital surgical departments, outpatient surgery centers, organ procurement centers and central supply processing units.

This program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) in cooperation with the Accreditation Review Council on Surgical Technology and Surgical Assisting (ARC-STSA).

Graduates of this program are qualified to take the National Board Exam offered by the National Board of Surgical Technology and Surgical Assisting (NBSTSA) to become a certified surgical technologist (CST).

**Locations.** This program is offered in its entirety at Forest Park.

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. understand asepsis and sterile technique.
2. explain sterilization, disinfection, and antisepsis.
3. demonstrate knowledge of specialty surgical procedures.
4. understand the use of surgical pharmacology and anesthesia.
5. exhibit knowledge of equipment, supplies, and instrumentation.
6. discuss patient care concepts.
7. maintain a safe environment in the surgical technologist role.
8. demonstrate the ability to perform routine tasks in the preoperative, intraoperative and postoperative areas.
9. communicate effectively in the healthcare environment.
10. recognize the value of teamwork and function as a member of a team.
11. exhibit a strong sense of ethical behavior and surgical conscience.
12. respond calmly and effectively under pressure.
13. exhibit self-direction and responsibility for actions.

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Prerequisites:** | | |
| The following courses must be completed with a grade of "C" or better within five years of applying to the program. | | |
| MTH 108 | Elementary Applied Mathematics (or higher) [1] | |
| BIO 111 | Introductory Biology (MOTR BIOL 100L) [1] | |
| Cumulative GPA of 2.5 or higher on a 4.0 scale. | | |
| **General Education** | | |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 |
| BIO 203 | General Microbiology I | 4 |
| BIO 207 | Anatomy and Physiology I (MOTR LIFS 150LAP) | 4 |
| BIO 208 | Anatomy and Physiology II | 4 |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 |
| SOC 101 | Introduction to Sociology (MOTR SOCI 101) | 3 |
| or PSY 200 | General Psychology (MOTR PSYC 100) | |
| XXX xxx | Humanities or Communications Elective | 3 |
| **Health and Wellness Requirement** | | |
| XXX xxx | Health and Wellness Elective (p. 479) | 2 |
| **Program Requirements** | | |
| ST 120 | Principles of Surgical Technology | 3 |
| ST 122 | Medical/Surgical Terminology | 3 |
| ST 124 | Clinical Foundations | 3 |
| ST 126 | Surgical Equipment and Technological Concepts | 2 |
| ST 128 | Perioperative Case Management | 3 |
| ST 220 | Procedures I | 3 |
| ST 230 | Procedures II | 3 |
| ST 224 | Clinical Practice I | 6 |
| ST 234 | Clinical Practice II | 6 |

| | | |
|---|---|---|
| ST 238 | Professional Issues | 2 |
| ST 228 | Clinical Seminar | 1 |
| ST 215 | Surgical Pharmacology | 2 |
| **Total Credit Hours** | | **63** |

[1] Math and Science courses must be completed within five years of applying to the program or by permission of the program director.

# Additional Program Information

## Academic Progression Policy

- Surgical technology students must maintain a 2.0 GPA in all program-required courses. Any grade below a “C” is considered failing in the Surgical Technology program.
- Should a student receive a failing grade or withdraw from a Surgical Technology (ST) course, the following rules apply:
  - The student will be not be permitted to continue in the Surgical Technology program, but may be eligible for readmission and may repeat the course the next time it is offered. The student must notify the Program Coordinator of their intent to seek readmission by responding to the dismissal letter by the stated deadline. Failure to do so will result in loss of readmission eligibility.
  - Students eligible for readmission are permitted one opportunity to repeat a Surgical Technology course. Readmission and reenrollment must occur within one year of the semester in which the course was failed or withdrawn.
  - Students seeking readmission to the program will be provided with an individualized plan determined by the Program Coordinator. This plan may include, but is not limited to, repeating failed course(s) and retaking required corequisite courses, auditing courses, meeting with the Academic Support Center, updating immunization requirements, and repeating physical examinations, background checks, and drug screenings. Students seeking readmission during the second year of the program may be required to complete additional on-campus laboratory sessions to demonstrate continued competency and ensure they have maintained the skills necessary for safe patient care prior to returning to clinical education. Failure to complete the assigned requirements by the established deadlines will result in loss of readmission eligibility.
  - Students are eligible for readmission only once. Any student who has been readmitted to the program and subsequently withdraws from or earns a grade of "D" or "F" in any Surgical Technology course will be dismissed and will not be eligible for further readmission.
  - Students who become ineligible for readmission due to exceeding the program's course failure and readmission limits must wait a minimum of five years from the date of their most recent failed Surgical Technology course before reapplying to the program. If readmitted after this period, the student must restart the Surgical Technology curriculum from the beginning and meet all admission, program, and graduation requirements in effect at the time of readmission.
  - Students dismissed from the program, or who receive a failing grade as a result of behavioral misconduct, unethical conduct, academic integrity violations, patient safety concerns, confidentiality violations, falsification of records, or disciplinary action by the College or a clinical affiliate, will not be eligible for readmission to the program.
- A minimum grade of “C” must be achieved for all general education college courses in the program curriculum (sciences, sociology, etc). Please note that some general education courses are prerequisites for ST courses. Students will not be able to progress in the SurgicalTechnology program if they are unable to enroll in required courses due to failing grades in a prerequisite general education course.

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate’s degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/missouri-civics-exam.aspx)**.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

# Program Prerequisites (to be completed with a grade of "C" or better within five years of applying to the program)

| Code | Title | Credit Hours |
|---|---|---|
| MTH 108 | Elementary Applied Mathematics (or higher) | 3 |
| BIO 111 | Introductory Biology (MOTR BIOL 100L) | 4 |
| **Total Credit Hours** | | **7** |

# Full-Time Academic Plan

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| BIO 203 | General Microbiology I | 4 | BIO 111 or BIO 140 with a minimum grade of "C", or college-level course equivalent, and Reading Proficiency | |
| BIO 207 | Anatomy and Physiology I (MOTR LIFS 150LAP) | 4 | BIO 111 or BIO 140 or CHM 101 with a minimum grade of "C", or college-level course equivalent, and Reading Proficiency | |
| ST 120 | Principles of Surgical Technology | 3 | Current enrollment in the Surgical Technology Program or permission of the program director and Reading Proficiency | Exploratory Course, Gateway Course, Critical Course. Corequisite: ST 122 |
| ST 122 | Medical/Surgical Terminology | 3 | Current enrollment in the Surgical Technology Program or permissions of program director, and Reading Proficiency | Gateway Course, Critical Course. Corequisite: ST 120 |
| | **Credit Hours** | **14** | | |
| **Spring** | | | | |
| ST 124 | Clinical Foundations | 3 | ST 120, ST 122 with minimum grades of "C", BIO 207 with a minimum grade of "C" or permission of program director, and Reading Proficiency | Gateway Course, Critical Course. Corequisite: ST 128 |
| ST 126 | Surgical Equipment and Technological Concepts | 2 | Current enrollment in the Surgical Technology Program, ST 120, ST 122 and BIO 203 all with minimum grades of "C", and Reading Proficiency | |
| ST 128 | Perioperative Case Management | 3 | ST 120 and ST 122, both with minimum grades of "C" and Reading Proficiency | Corequisite: ST 124 and ST 126 |
| SOC 101<br>or PSY 200 | Introduction to Sociology (MOTR SOCI 101)<br>or General Psychology (MOTR PSYC 100) | 3 | Reading Proficiency or concurrent enrollment in RDG 079 | May complete prior to or during the program |
| BIO 208 | Anatomy and Physiology II | 4 | BIO 207 with a minimum grade of "C" and Reading Proficiency | May complete prior to or during the program |
| | **Credit Hours** | **15** | | |
| **Summer** | | | | |
| ST 215 | Surgical Pharmacology | 2 | Current enrollment in the Surgical Technology Program, ST 120 with a minimum grade of "C", and Reading Proficiency | |
| XXX xxx | Health and Wellness Elective (p. 479) | 2 | | HW 111 is suggested. |
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 | Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079 | May complete prior to or during the program |
| | **Credit Hours** | **7** | | |

| | | | | |
|---|---|---|---|---|
| **Second Year** | | | | |
| **Fall** | | | | |
| ST 220 | Procedures I | 3 | ST 124, ST 126, ST 128, ST 215, BIO 208, all with minimum grades of "C" and Reading Proficiency | Corequisite: ST 224 |
| ST 224 | Clinical Practice I | 6 | Reading Proficiency | Corequisite: ST 220 and ST 228 |
| ST 228 | Clinical Seminar | 1 | Reading Proficiency | Corequisite: ST 224 |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (p. 416) | 3 | | May complete prior to or during the program |
| | **Credit Hours** | **13** | | |
| **Spring** | | | | |
| ST 230 | Procedures II | 3 | ST 220, ST 224 with minimum grades of "C" and Reading Proficiency | Corequisite: ST 234 and ST 238 |
| ST 234 | Clinical Practice II | 6 | ST 228 with a minimum grade of "C" and Reading Proficiency | Corequisite: ST 230 |
| ST 238 | Professional Issues | 2 | ST 220 and ST 224 with minimum grades of "C" and Reading Proficiency | |
| XXX xxx | Humanities or Communications Elective | 3 | | May complete prior to or during the program |
| | **Credit Hours** | **14** | | |
| | **Total Credit Hours** | **63** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Web Developer: CS

**Certificate of Specialization | 20 credit hours minimum**

**School of Business and Computer Information Technology**

**Program Website (https://stlcc.edu/programs-academics/pathways/s-t-e-m/web-developer/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

The Web Developer Certificate of Specialization is designed for students seeking skills to qualify for positions as Web Developers. The certificate was developed to include topics that will build the programming and design skills a Web Developer needs in order to build and maintain an organization's website. Emphasis is placed upon object-oriented and scripted languages that are widely used for the Internet and intranets. The courses provide students with both the theoretical and technical knowledge and practical hands-on experience to be successful in the high demand Web Developer occupation.

**Location.** This program is offered in its entirety at Meramec.

**Related Program.** The Computer and Information Technology Department offers an associate in the following area:

- **Software Developer, Associate in Applied Science (p. 387)**

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. develop websites for various display devices.
2. develop websites that incorporate current primary and secondary navigation features.
3. develop websites that comply with industry standards and guidelines for content accessibility.
4. develop front-end (Browser-side) applications using current tools for data collection and retrieval over the Web.
5. upgrade existing websites.
6. develop software to meet written requirements.

# Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Program Requirements** | | |
| IS 139 | Web Publishing | 3 |
| IS 153 | C# Programming I | 4 |
| or IS 187 | Java Programming I | |
| IS 265 | Web Scripting Technologies | 3 |
| IS 142 | Web Development | 3 |
| IS 141 | Graphics for the Web | 3 |
| IS 253 | C# Programming II | 4 |
| or IS 287 | Java Programming II | |
| **Total Credit Hours** | | **20** |

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

# Full-Time Academic Plan

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| IS 139 | Web Publishing | 3 | Reading Proficiency | Exploratory Course, Gateway Course. 1st 8-week class |
| IS 153 or 187 | C# Programming I or Java Programming I | 4 | Reading Proficiency | 1st 8-week class |
| IS 141 | Graphics for the Web | 3 | IS 139 with a minimum grade of "C" and Reading Proficiency | 8-week class starting week 4 |
| IS 265 | Web Scripting Technologies | 3 | IS 139 with a minimum grade of "C" and Reading Proficiency | 2nd 8-week class, starting week 9 |
| Choose one of the following: | | 4 | | 2nd 8-week class, starting week 9 |

| | | | | |
|---|---|---|---|---|
| IS 253 | C# Programming II | | IS 153 or IS 167 or IS 187 or IS 166 with minimum grades of "C" and Reading Proficiency | |
| IS 287 | Java Programming II | | IS 153 or IS 167 or IS 187 or IS 256 or IS 166 with minimum grades of "C" and Reading Proficiency | |
| IS 142 | Web Development | 3 | IS 153 or IS 167 or IS 187 with a minimum grade of "C", IS 139 with a minimum grade of "C", concurrent or prior enrollment in IS 265 with a minimum grade of "C", and Reading Proficiency | 6-week class, starting week 11 |
| | **Credit Hours** | **20** | | |
| | **Total Credit Hours** | **20** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

# Part-Time Academic Plan

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| IS 139 | Web Publishing | 3 | Reading Proficiency | Exploratory Course, Gateway Course. 1st 8-week class |
| IS 153<br>or 187 | C# Programming I<br>or Java Programming I | 4 | Reading Proficiency | |
| IS 141 | Graphics for the Web | 3 | IS 139 with a minimum grade of "C" and Reading Proficiency | |
| | **Credit Hours** | **10** | | |
| **Spring** | | | | |
| IS 265 | Web Scripting Technologies | 3 | IS 139 with a minimum grade of "C" and Reading Proficiency | Apply for graduation. |
| Choose one of the following: | | 4 | | |
| IS 253 | C# Programming II | | IS 153 or IS 167 or IS 187 or IS 166 with minimum grades of "C" and Reading Proficiency | |
| IS 287 | Java Programming II | | IS 153 or IS 167 or IS 187 or IS 256 or IS 166 with minimum grades of "C" and Reading Proficiency | |

| | | | | |
|---|---|---|---|---|
| IS 142 | Web Development | 3 | IS 153 or IS 167 or IS 187 with a minimum grade of "C", IS 139 with a minimum grade of "C", concurrent or prior enrollment in IS 265 with a minimum grade of "C", and Reading Proficiency | |
| | **Credit Hours** | **10** | | |
| | **Total Credit Hours** | **20** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Welding Technology: CP

**Certificate of Proficiency | 31 credit hours minimum**

**School of Advanced Manufacturing, Transportation, and Hospitality Studies**

**Program Website (https://stlcc.edu/pathways/industrial/welding-tech/)**

**Academic Advising (https://stlcc.edu/admissions/advising/)**

# Program Description:

Welding Technology, Certificate of Proficiency equips students with the knowledge and expertise needed to excel in the field of welding. This program offers comprehensive training in various welding techniques. Student receive hands-on training in oxy-acetylene welding, brazing, cutting, SMAW (shielded metal arc welding), GMAW (gas metal arc welding), FCAW (flux core arc welding), GTAW (gas tungsten arc welding), and large diameter welding. Students complete OSHA 10 and safety training.

**Locations.** This program is offered in its entirety at Florissant Valley.

**Related Programs.** The Engineering Technology and Manufacturing Department offers an associate and a certificate in the following area:

- **Engineering Technology, Associate in Applied Science (p. 207)**
- **Welding Technology, Certificate of Specialization (p. 414)**

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program “St. Louis Community College” and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. identify potential hazards to safe workplace operations.
2. fabricate projects according to specifications using trade equipment.
3. interpret shop drawings.

4. weld using oxy-acetylene techniques.
5. weld using SMAW (shielded metal arc welding) techniques.
6. weld using GMAW (gas metal arc welding) techniques.
7. weld using FCAW (flux core arc welding) techniques.
8. weld using GTAW (gas tungsten arc welding) techniques.
9. weld using large diameter techniques.

# Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Program Requirements** | | |
| GE 140 | Industrial Occupations Fundamentals | 3 |
| GE 141 | OSHA 10 | 1 |
| WEL 100 | Welding Theory | 2 |
| GE 135 | Blueprint Reading for Engineering Technicians | 2 |
| WEL 150 | Welding I - Oxy-Acetylene Welding | 3 |
| WEL 152 | Welding II - Oxy-Acetylene Cutting, Brazing, and Soldering | 2 |
| WEL 154 | Arc Welding I - Flat and Tee Joints | 3 |
| WEL 156 | Arc Welding II - Horizontal, Vertical, and Overhead | 6 |
| WEL 160 | GMAW and FCAW Welding | 2 |
| WEL 162 | GTAW Welding | 2 |
| WEL 163 | Large Diameter Welding | 2 |
| ME 249 | Materials and Metallurgy | 3 |
| **Total Credit Hours** | | **31** |

# Full-Time Academic Plan

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| GE 140 | Industrial Occupations Fundamentals | 3 | Reading Proficiency | |
| WEL 100 | Welding Theory | 2 | Reading Proficiency | Exploratory Course, Gateway Course, Critical Course |
| GE 135 | Blueprint Reading for Engineering Technicians | 2 | Reading Proficiency | |
| GE 141 | OSHA 10 | 1 | Reading Proficiency | |
| WEL 150 | Welding I - Oxy-Acetylene Welding | 3 | Reading Proficiency | Critical Course. First 5 weeks |
| WEL 152 | Welding II - Oxy-Acetylene Cutting, Brazing, and Soldering | 2 | WEL 150 with a minimum grade of "C" and Reading Proficiency | Second 5 weeks |
| WEL 154 | Arc Welding I - Flat and Tee Joints | 3 | WEL 152 with a minimum grade of "C" and Reading Proficiency | Third 5 weeks. Submit application for graduation for Welding Technology, CS. |
| | **Credit Hours** | **16** | | |
| **Spring** | | | | |
| ME 249 | Materials and Metallurgy | 3 | Reading Proficiency | |
| WEL 156 | Arc Welding II - Horizontal, Vertical, and Overhead | 6 | WEL 154 with a minimum grade of "C" and Reading Proficiency | First 8 weeks |

| | | | | |
|---|---|---|---|---|
| WEL 160 | GMAW and FCAW Welding | 2 | WEL 156 with a minimum grade of "C" and Reading Proficiency | Weeks 9-12 |
| WEL 162 | GTAW Welding | 2 | WEL 152 with a minimum grade of "C" and Reading Proficiency | Weeks 13-14 |
| WEL 163 | Large Diameter Welding | 2 | WEL 156 with a minimum grade of "C" and Reading Proficiency | Weeks 15-16 |
| | **Credit Hours** | **15** | | |
| | **Total Credit Hours** | **31** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# Welding Technology: CS

**Certificate of Specialization | 16 credit hours minimum**

**School of Advanced Manufacturing, Transportation, and Hospitality Studies**

**Program Website (https://stlcc.edu/pathways/industrial/welding-tech/)**

**Academic Advising**

# Program Description:

Welding Technology, Certificate of Specialization equips students with the knowledge and expertise needed to excel in the field of welding. This program offers comprehensive training in the basics of welding techniques. Students receive hands-on training in oxy-acetylene welding, brazing, and SMAW (shielded metal arc welding). Students complete OSHA 10 and safety training.

**Locations.** This program is offered in its entirety at Florissant Valley.

**Related Programs.** The Engineering Technology and Manufacturing Department offers an associate and a certificate in the following areas:

- **Engineering Technology, Associate in Applied Science (p. 207)**
- **Welding Technology, Certificate of Proficiency (p. 412)**

**Cost of Attendance**. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search)**.

**Program Career and Salary Information.** Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, the most recent cohorts for wage and completion data are six years before the current academic year. The time to complete a program of study varies depending on the number of credit hours students earn per semester.

**Interested in this program?** Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

# At the completion of the program, students are expected to:

1. identify potential hazards to safe workplace operations.
2. fabricate projects according to specifications using trade equipment.
3. interpret shop drawings.

4. weld using oxy-acetylene techniques.
5. weld using SMAW (shielded metal arc welding) techniques.

# Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Program Requirements** | | |
| GE 140 | Industrial Occupations Fundamentals | 3 |
| GE 141 | OSHA 10 | 1 |
| WEL 100 | Welding Theory | 2 |
| GE 135 | Blueprint Reading for Engineering Technicians | 2 |
| WEL 150 | Welding I - Oxy-Acetylene Welding | 3 |
| WEL 152 | Welding II - Oxy-Acetylene Cutting, Brazing, and Soldering | 2 |
| WEL 154 | Arc Welding I - Flat and Tee Joints | 3 |
| **Total Credit Hours** | | **16** |

# Full-Time Academic Plan

**PLEASE NOTE**: If you originally enrolled at STLCC prior to Fall 2026, you may need to view an **archived catalog (https://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

| Code | Title | Hours | Prerequisites | Milestones/Notes |
|---|---|---|---|---|
| **First Year** | | | | |
| **Fall** | | | | |
| GE 140 | Industrial Occupations Fundamentals | 3 | Reading Proficiency | |
| WEL 100 | Welding Theory | 2 | Reading Proficiency | Exploratory Course, Gateway Course, Critical Course |
| GE 135 | Blueprint Reading for Engineering Technicians | 2 | Reading Proficiency | |
| GE 141 | OSHA 10 | 1 | Reading Proficiency | |
| WEL 150 | Welding I - Oxy-Acetylene Welding | 3 | Reading Proficiency | Critical Course. First 5 weeks |
| WEL 152 | Welding II - Oxy-Acetylene Cutting, Brazing, and Soldering | 2 | WEL 150 with a minimum grade of "C" and Reading Proficiency | Second 5 weeks |
| WEL 154 | Arc Welding I - Flat and Tee Joints | 3 | WEL 152 with a minimum grade of "C" and Reading Proficiency | Third 5 weeks |
| | **Credit Hours** | **16** | | |
| | **Total Credit Hours** | **16** | | |

**Critical Courses:** Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

**Exploratory Courses:** Exploratory courses are first-semester courses that introduce the program and career field.

**Gateway Courses:** Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

# GENERAL EDUCATION REQUIREMENTS

## General Education Course Requirements

Students who are completing the General Transfer Studies Associate in Arts degree, Business Administration Associate in Arts degree, or the Associate of Arts in Teaching degree must complete 42 credit hours of general education courses. These courses provide an opportunity for students to develop skills and knowledge that will enhance their lives far beyond graduation. The ability to communicate effectively, solve problems, understand values, and manage information are skills that are important whether the student is pursuing further education, is active in the workforce, or participates in the civic and cultural life of the community. Courses that provide general knowledge in quantitative reasoning, science, social and behavioral sciences, and humanities serve to broaden each student's perspective in an increasingly complex world.

Missouri Senate Bill 997, signed into law in 2016 for implementation in fall 2018, ensures that all general education courses are fully transferable to all public colleges and universities in Missouri. This statewide framework is called CORE 42, and all courses that are included in this framework are identified in the catalog and in the course schedule with a Missouri Transfer (MOTR) number. Students who complete all 42-credit hours will have CORE 42 noted on their transcript.

In addition to the 42-credit hours of general education, students should select additional courses depending on their intended program at their destination four-year university. Academic advisors are available on each campus to assist students in the selection of the best courses for transferability.

| Code | Title | Credit Hours |
|---|---|---|
| **Social and Behavioral Sciences** | | **9** |
| | 9 credit hours minimum, from at least two disciplines, including at least one Civics course | |
| **Written and Oral Communications** | | **9** |
| | 6 credit hours minimum from Written, 3 credit hours minimum from Oral | |
| **Natural Sciences** | | **7** |
| | 7 credit hours minimum, from at least two disciplines, including one course with a lab component | |
| **Mathematical Sciences** | | **3** |
| **Humanities and Fine Arts** | | **9** |
| | 9 credit hours minimum, from at least two disciplines; 3 credit hour limit on performance courses | |
| **MOTR Courses to reach 42 credit hours** | | **5** |
| | Remaining 5 credit hours may come from IDSE (Interdisciplinary) MOTR equivalent courses and any MOTR equivalent course distributed across the knowledge areas except for PERF equivalent courses which are limited to a total of 3 credit hours. | |

## Associate in Applied Science General Education Requirements

For the Associate in Applied Science degrees, satisfactory completion of general education courses is equal to a minimum of twenty-five percent of the total credit hours for the program, distributed as follows:

| Code | Title | Credit Hours |
|---|---|---|
| Written Communications as defined by the Coordinating Board for Higher Education and included in state-wide guaranteed transfer lists | | 3 |
| Civics as defined by the Coordinating Board for Higher Education and included in the state-wide guaranteed transfer lists | | 3 |
| Natural Science as defined by the Coordinating Board for Higher Education and included in the state-wide transfer lists OR Mathematics (100-level or higher) | | 3 |
| Credit hours selected from one or more of the following MOTR categories to equal 25% or more of the total credit hours for the program: | | |
| | Humanities & Fine Arts, Written Communications, Oral Communications, Natural Sciences, Mathematical Sciences, and/or Social & Behavioral Sciences (for example, a program with 60 credit hours must have at least 15 total credits of General Education). | |

## Associate in Fine Arts General Education Requirements

For the Associate in Fine Arts, satisfactory completion of a minimum of 15 credit hours of general education courses, or credit hours equal to a minimum of twenty-five percent of the total credit hours for the program. Distributed as follows:

| Code | Title | Credit Hours |
|---|---|---|
| Written Communications as defined by the Coordinating Board for Higher Education and included in state-wide guaranteed transfer lists | | 3 |
| Civics as defined by the Coordinating Board for Higher Education and included in state-wide guaranteed transfer lists | | 3 |
| Natural Science as defined by the Coordinating Board for Higher Education and included in state-wide transfer lists or Mathematics | | 3 |
| Credit hours selected from one or more of the following MOTR categories to equal 25% or more of the total credit hours for the program: | | |
| | Humanities & Fine Arts, Written Communications, Oral Communications, Natural Sciences, Mathematical Sciences, and/or Social & Behavioral Sciences (for example, a program with 60 credit hours must have at least 15 total credits of General Education). | |

## Associate in Science General Education Requirements

For the Associate in Science degrees, satisfactory completion of a minimum of 15 credit hours of general education courses distributed as follows:

| Code | Title | Credit Hours |
|---|---|---|
| Written Communications as defined by the Coordinating Board for Higher Education and included in state-wide guaranteed transfer lists | | 3 |
| Civics as defined by the Coordinating Board for Higher Education and included in state-wide guaranteed transfer lists | | 3 |
| Mathematics: Precalculus Algebra or higher | | 3 |
| Natural Sciences as defined by the Coordinating Board of Higher Education and included in state-wide guaranteed transfer lists | | 7 |
| Credit hours selected from one or more of the following MOTR categories to equal 25% or more of the total credit hours for the program: | | |
| Humanities, Communication, Natural Science, Mathematics, and/or Social Science (for example, a program with 60 credit hours must have at least 15 total credit hours of General Education). | | |

# Frequently Asked Questions

## What are the General Education Requirements for the AA and AAT degrees?

STLCC, along with all other public colleges and universities in Missouri, has adopted the statewide general education framework that goes into effect for the AA and AAT degrees in Fall 2018. This core transfer curriculum is commonly known as CORE 42.

The statewide general education framework is intended to ensure that all graduates possess a common core of college-level skills and knowledge. These courses are designated with a Missouri Transfer (MOTR) number, which guarantees the one-to-one transfer of these courses among all Missouri public institutions of higher education.

## What are the requirements of the CORE 42?

For the General Transfer Studies program, students must complete 42 credit hours of MOTR courses, distributed as follows:

- **Written Communications:** 6 credit hours
- **Oral Communications:** 3 credit hours
- **Social and Behavioral Sciences:** 9 credit hours in at least two disciplines, including at least one Civics course
- **Natural Sciences:** 7 credit hours in at least two disciplines, including at least one laboratory course
- **Mathematics:** One course selected from MTH 110, MTH 110S, MTH 120, MTH 120S, MTH 160, MTH 160S, MTH 161, MTH 161S, MTH 180, MTH 180S, or MTH 185, or a course that requires one of these as a prerequisite
- **Humanities and Fine Arts:** 9 credit hours in at least two disciplines.

Remaining credit hours must be completed with additional MOTR courses of the student's choosing.

## I started at STLCC before Fall 2018. Are my requirements the same?

Your requirements are determined by your catalog term. If your catalog term is before Fall 2018, then your requirements will be different. You should discuss your options with an academic advisor. Many students will find it beneficial to switch to CORE 42 because the courses included in this framework are guaranteed to transfer to other public institutions in Missouri.

## What is the advantage of CORE 42?

The CORE 42 brings peace of mind to students when they transfer to other public institutions in Missouri, which are obligated to accept credit for these courses by law.

## Will there be more courses with MOTR numbers?

Committees of faculty from institutions across the state continue to work to identify courses to include in this framework. STLCC's Catalog will be updated with any changes.

# Social & Behavioral Sciences

- 9 credit hours minimum, from at least two (2) disciplines, including at least one Civics course

| Code | Title | Credit Hours |
|---|---|---|
| **MOTR ANTH Discipline** | | |
| ANT 101 | General Anthropology (MOTR ANTH 101) | 3 |
| ANT 102 | Introduction to Cultural Anthropology (MOTR ANTH 201) | 3 |
| **MOTR CRIM Discipline** | | |
| SOC 203 | Introduction to Criminology (MOTR CRIM 205) | 3 |

| | | |
|---|---|---|
| **MOTR CRJS Discipline** | | |
| CRJ 122 | Introduction to Criminal Justice (MOTR CRJS 101) | 3 |
| **MOTR ECON Discipline** | | |
| ECO 140 | Introduction to Economics (MOTR ECON 100) | 3 |
| ECO 151 | Principles of Macroeconomics (MOTR ECON 101) | 3 |
| ECO 152 | Principles of Microeconomics (MOTR ECON 102) | 3 |
| **MOTR GEOG Discipline** | | |
| GEG 101 | Regional Geography (MOTR GEOG 101) | 3 |
| **MOTR POSC Discipline** | | |
| PSC 201 | International Relations (MOTR POSC 201) | 3 |
| PSC 213 | Introduction to Comparative Politics (MOTR POSC 202) | 3 |
| **MOTR PSYC Discipline** | | |
| PSY 200 | General Psychology (MOTR PSYC 100) | 3 |
| PSY 205 | Human Growth and Development (MOTR PSYC 200) | 3 |
| **MOTR SBSC Discipline** | | |
| COM 200 | Communication Between Cultures (MOTR SBSC 101) | 3 |
| MCM 101 | Introduction to Mass Communications (MOTR SBSC 100) | 3 |
| **MOTR SOCI Discipline** | | |
| SOC 101 | Introduction to Sociology (MOTR SOCI 101) | 3 |
| SOC 202 | Social Problems (MOTR SOCI 201) | 3 |
| SOC 204 | Introduction to Family Studies (MOTR SOCI 204) | 3 |
| SOC 212 | Race and Ethnicity (MOTR SOCI 202) | 3 |
| SOC 216 | Introduction to Gender Studies (MOTR SOCI 203) | 3 |

### Civics Courses

| Code | Title | Credit Hours |
|---|---|---|
| **MOTR HIST Discipline** | | |
| HST 101 | United States History to 1865 (MOTR HIST 101) | 3 |
| HST 102 | United States History from 1865 to the Present (MOTR HIST 102) | 3 |
| HST 137 | African American History through Reconstruction (MOTR HIST 101AA) | 3 |
| HST 138 | African American History from Reconstruction to the Present (MOTR HIST 102AA) | 3 |
| **MOTR POSC Discipline** | | |
| PSC 101 | Introduction to American Politics (MOTR POSC 101) | 3 |

## Written & Oral Communications

- 6 credit hours minimum from Written Communications
- 3 credit hours minimum from Oral Communications

### Written Communications

| Code | Title | Credit Hours |
|---|---|---|
| ENG 101 | College Composition I (MOTR ENGL 100) | 3 |
| ENG 102 | College Composition II (MOTR ENGL 200) | 3 |
| ENG 103 | Report Writing (MOTR ENGL 110) | 3 |

### Oral Communications

| Code | Title | Credit Hours |
|---|---|---|
| COM 101 | Oral Communication I (MOTR COMM 100) | 3 |
| COM 103 | Small Group Communication (MOTR COMM 125) | 3 |
| COM 107 | Public Speaking (MOTR COMM 110) | 3 |

| | | |
|---|---|---|
| COM 112 | Argumentation and Debate (MOTR COMM 220) | 3 |
| COM 201 | Interpersonal Communication (MOTR COMM 120) | 3 |

# Natural Sciences

- 7 credit hours minimum, from at least two disciplines, including one course with a lab component

## Non-lab Courses

| Code | Title | Credit Hours |
|---|---|---|
| **MOTR ASTR Discipline** | | |
| PSI 111 | Introduction to Astronomy I (MOTR ASTR 100) | 3 |
| **MOTR BIOL Discipline** | | |
| BIO 113 | Modern Aspects of Biology (MOTR BIOL 100) | 3 |
| BIO 117 | Conservation and Ecology (MOTR BIOL 100EC) | 3 |
| **MOTR CHEM Discipline** | | |
| CHM 123 | Fundamentals of Forensic Chemistry (MOTR CHEM 100) | 3 |
| **MOTR LIFS Discipline** | | |
| BIO 109 | Human Biology (MOTR LIFS 100) | 3 |
| BIO 151 | Biology of Human Health and Disease (MOTR LIFS 100D) | 3 |
| BIO 154 | The Biology of Human Sex (MOTR LIFS 100R) | 3 |
| BIO 125 | Principles of Nutrition (MOTR LIFS 100N) | 3 |
| **MOTR GEOG Discipline** | | |
| GEG 103 | Physical Geography (MOTR GEOG 100) | 3 |
| **MOTR GEOL Discipline** | | |
| GEO 103 | Environmental Geology (MOTR GEOL 100) | 3 |
| **MOTR PHYS Discipline** | | |
| GEO 100 | Earth Science (MOTR PHYS 110ES) | 3 |
| GEO 113 | Oceanography (MOTR PHYS 110O) | 3 |
| PSI 101 | Physical Science (MOTR PHYS 110) | 3 |
| PSI 123 | Meteorology (MOTR PHYS 110AS) | 3 |

## Lab Courses

| Code | Title | Credit Hours |
|---|---|---|
| **MOTR ASTR Discipline** | | |
| PSI 115 | Observational Astronomy (MOTR ASTR 100L) | 1 |
| **MOTR BIOL Discipline** | | |
| BIO 110 | General Zoology (MOTR BIOL 100LZ) | 4 |
| BIO 111 | Introductory Biology (MOTR BIOL 100L) | 4 |
| BIO 124 | General Botany I (MOTR BIOL 100LB) | 4 |
| BIO 140 | Principles of Biology I (MOTR BIOL 150L) | 5 |
| **MOTR CHEM Discipline** | | |
| CHM 101 | Fundamentals of Chemistry I (MOTR CHEM 100L) | 5 |
| CHM 105 | General Chemistry I (MOTR CHEM 150L) | 5 |
| CHM 109 | Chemistry and the Environment (MOTR CHEM 100L) | 4 |
| **MOTR GEOL Discipline** | | |
| GEO 111 | Physical Geology (MOTR GEOL 100L) | 5 |
| **MOTR LIFS Discipline** | | |
| BIO 106 | Human Heredity (MOTR LIFS 100LG) | 4 |
| BIO 207 | Anatomy and Physiology I (MOTR LIFS 150LAP) | 4 |
| **MOTR PHYS Discipline** | | |
| GEO 101 | Earth Science Laboratory (MOTR PHYS 110LES) | 1 |
| PHY 111 | College Physics I (MOTR PHYS 150L) | 4 |

| | | |
|---|---|---|
| PHY 122 | Engineering Physics I (MOTR PHYS 200L) | 5 |
| PSI 125 | Introduction to Atmospheric Science (MOTR PHYS 110LAS) | 4 |

# Mathematical Sciences

- 3 credit hours minimum

| Code | Title | Credit Hours |
|---|---|---|
| MTH 110 | Introductory Statistics (MOTR MATH 110) | 3 |
| MTH 110S | Introductory Statistics with Support (MOTR MATH 110) | 5 |
| MTH 120 | Quantitative Reasoning (MOTR MATH 120) | 3 |
| MTH 120S | Quantitative Reasoning with Support (MOTR MATH 120) | 5 |
| MTH 160 | Precalculus Algebra (MOTR MATH 130) | 3 |
| MTH 160S | Precalculus Algebra with Support (MOTR MATH 130) | 5 |
| MTH 161 | Quantitative Reasoning (MOTR MATH 120) | 3 |
| MTH 161S | Quantitative Reasoning with Support (MOTR MATH 120) | 5 |
| MTH 170 | Precalculus Trigonometry | 3 |
| MTH 177 | Finite Mathematics | 4 |
| MTH 180 | Introductory Statistics (MOTR MATH 110) | 3 |
| MTH 180S | Introductory Statistics with Support (MOTR MATH 110) | 5 |
| MTH 185 | Precalculus (MOTR MATH 150) | 5 |
| MTH 186 | Survey of Calculus | 4 |
| MTH 210 | Analytic Geometry and Calculus I | 5 |
| MTH 215 | Linear Algebra | 3 |
| MTH 220 | Analytic Geometry and Calculus II | 5 |
| MTH 230 | Analytic Geometry and Calculus III | 5 |
| MTH 240 | Differential Equations | 3 |

**Courses that use one of the pathway courses as a prerequisite will meet the general education credit for math. For example, MTH 210 meets the General Education math requirement since MTH 160 is a prerequisite.

# Humanities and Fine Arts

- 9 credit hours minimum, from at least two disciplines
- There is a limit of three (3) credit hours of Performance courses that can be applied to the Humanities and Fine Arts Knowledge Area and to the total CORE 42

| Code | Title | Credit Hours |
|---|---|---|
| **MOTR ARTS Discipline** | | |
| ART 100 | Art Appreciation (MOTR ARTS 100) | 3 |
| ART 101 | Art History - Prehistory to 1300 (MOTR ARTS 101) | 3 |
| ART 102 | Art History - 1300 to Present (MOTR ARTS 102) | 3 |
| ART 103 | History of Modern Art (MOTR ARTS 100) | 3 |
| ART 169 | Concepts in the Visual Arts (MOTR ARTS 100) | 3 |
| **MOTR FILM Discipline** | | |
| MCM 130 | Film Appreciation (MOTR FILM 100) | 3 |
| MCM 131 | History of Film (MOTR FILM 103) | 3 |
| **MOTR LANG Discipline** | | |
| ARA 101 | Modern Arabic I (MOTR LANG 105) | 4 |
| ARA 102 | Modern Arabic II (MOTR LANG 106) | 4 |
| CHI 101 | Elementary Chinese I (MOTR LANG 105) | 4 |
| CHI 102 | Elementary Chinese II (MOTR LANG 106) | 4 |
| DCS 104 | American Sign Language I (MOTR LANG 105) | 4 |
| DCS 105 | American Sign Language II (MOTR LANG 106) | 4 |
| FRE 101 | Elementary French I (MOTR LANG 101) | 4 |

| | | |
|---|---|---|
| FRE 102 | Elementary French II (MOTR LANG 102) | 4 |
| GER 101 | Elementary German I (MOTR LANG 105) | 4 |
| GER 102 | Elementary German II (MOTR LANG 106) | 4 |
| JPN 101 | Modern Japanese I (MOTR LANG 105) | 4 |
| JPN 102 | Modern Japanese II (MOTR LANG 106) | 4 |
| SPA 101 | Elementary Spanish I (MOTR LANG 103) | 4 |
| SPA 102 | Elementary Spanish II (MOTR LANG 104) | 4 |
| **MOTR LITR Discipline** | | |
| ENG 201 | Introduction to Fiction (MOTR LITR 100F) | 3 |
| ENG 202 | Introduction to Poetry and Plays (MOTR LITR 100) | 3 |
| ENG 205 | American Literature II (MOTR LITR 101B) | 3 |
| ENG 216 | Women in Literature (MOTR LITR 106) | 3 |
| ENG 217 | Major Black Writers (MOTR LITR 105AA) | 3 |
| ENG 231 | World Literature (MOTR LITR 200) | 3 |
| **MOTR MUSC Discipline** | | |
| MUS 103 | Music Fundamentals (MOTR MUSC 101) | 3 |
| MUS 113 | History of Jazz (MOTR MUSC 100J) | 3 |
| MUS 114 | Music Appreciation (MOTR MUSC 100) | 3 |
| MUS 128 | History of Rock and Roll (MOTR MUSC 100RP) | 3 |
| **MOTR PHIL Discipline** | | |
| PHL 101 | Introduction to Philosophy (MOTR PHIL 100) | 3 |
| PHL 102 | Introduction to Logic (MOTR PHIL 101) | 3 |
| PHL 104 | Ethics (MOTR PHIL 102) | 3 |
| PHL 112 | Business Ethics (MOTR PHIL 102P) | 3 |
| **MOTR RELG Discipline** | | |
| PHL 103 | World Religions (MOTR RELG 100) | 3 |
| **MOTR THEA Discipline** | | |
| THT 101 | Introduction to Theatre (MOTR THEA 100A) | 3 |
| **MOTR WCIV Discipline** | | |
| HST 115 | Ancient and Medieval History to 1500 (MOTR WCIV 101) | 3 |
| HST 128 | Western Civilization from 1500 to the Present (MOTR WCIV 102) | 3 |
| HUM 109 | Arts and Ideas in the Ancient World (MOTR WCIV 101) | 3 |
| HUM 110 | The Middle Ages and the Renaissance (MOTR WCIV 101) | 3 |

## Performance Options

| Code | Title | Credit Hours |
|---|---|---|
| **MOTR PERF Discipline** | | |
| ART 109 | Drawing I (MOTR PERF 105D) | 3 |
| ART 113 | Ceramics I (MOTR PERF 105C) | 3 |
| ART 115 | Printmaking I (MOTR PERF 105GA) | 3 |
| ART 116 | Sculpture I (MOTR PERF 105S) | 3 |
| ART 165 | Photography I (MOTR PERF 105GA) | 3 |
| ART 172 | Digital Photography (MOTR PERF 105GA) | 3 |
| ART 275 | Photo Imaging I: Photoshop (MOTR PERF 105GA) | 3 |
| COM 111 | Voice and Articulation (MOTR PERF 100VD) | 3 |
| ENG 110 | Creative Writing (MOTR PERF 106) | 3 |
| ENG 224 | Fiction Writing (MOTR PERF 106F) | 3 |
| ENG 225 | Poetry Writing (MOTR PERF 106P) | 3 |
| MCM 134 | Introduction to Filmmaking (MOTR PERF 107) | 3 |
| MUS 131 | Choir I (MOTR PERF 102C) | 1 |
| MUS 132 | Orchestra I (MOTR PERF 102O) | 1 |
| MUS 134 | Band I (MOTR PERF 102B) | 1 |

| | | |
|---|---|---|
| MUS 135 | Choir II (MOTR PERF 102C) | 1 |
| MUS 138 | Jazz Ensemble I (MOTR PERF 102B) | 1 |
| MUS 139 | Jazz Ensemble II (MOTR PERF 102B) | 1 |
| MUS 146 | Orchestra II (MOTR PERF 102O) | 1 |
| MUS 147 | Band II (MOTR PERF 102B) | 1 |
| MUS 216 | Jazz Ensemble III (MOTR PERF 102B) | 1 |
| MUS 231 | Choir III (MOTR PERF 102C) | 1 |
| MUS 232 | Orchestra III (MOTR PERF 102O) | 1 |
| MUS 234 | Band III (MOTR PERF 102B) | 1 |
| MUS 235 | Choir IV (MOTR PERF 102C) | 1 |
| MUS 236 | Orchestra IV (MOTR PERF 102O) | 1 |
| MUS 237 | Band IV (MOTR PERF 102B) | 1 |
| THT 102 | Stagecraft (MOTR PERF 104S) | 3 |
| THT 108 | Acting I (MOTR PERF 100) | 3 |

# Interdisciplinary

Interdisciplinary courses with the MOTR IDSE designation are not required to meet the general education requirements. These courses may only be applied to the CORE 42 elective category and cannot be used to satisfy requirements in the following knowledge areas: Social & Behavioral Sciences/Civics, Written & Oral Communications, Natural Sciences, Mathematical Sciences, and Humanities and Fine Arts. No exceptions will be made.

| Code | Title | Credit Hours |
|---|---|---|
| **MOTR IDSE Discipline** | | |
| COL 110 | College Foundations (MOTR IDSE 101) | 2 |
| HW 110 | Wellness for the Individual (MOTR IDSE 102) | 2 |

# COURSE DESCRIPTIONS

This section contains descriptions of all credit courses offered at St. Louis Community College as well as other off-campus locations during the academic year. The courses listed herein are current as of March 2026.

Not all of the courses listed in this section are offered every semester. Information on where and when these courses are available may be found in each semester's course schedule. Contact advising for more information.

## Critical Courses

Critical courses are most important to a student's declared major and most strongly predict later success in the major.  A critical course requires a minimal grade to progress to higher-level courses.

## Exploratory Courses

Exploratory courses are first-semester courses that introduce the program and career field.

## Gateway Courses

Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

## Reading Proficiency Prerequisite

Many courses in this catalog list Reading Proficiency as a prerequisite. This means that before a student can enroll in those courses, they must demonstrate the ability to read at the college level. Achieving reading proficiency helps ensure students are prepared for the reading demands of college coursework.

A student can meet the Reading Proficiency prerequisite by satisfying one of the following criteria:

- ACT reading sub-score of 18 or higher
- SAT verbal score of 500 or higher
- Reading Placement Test Score of 250 or higher
- High school GPA of 2.6 or higher
- HiSET Score of 15 to 20
- High school English grades meeting one of the following:
  - Last two English grades were B or better; or
  - Last English grade was an A, and the overall high school GPA was at least 2.50

Students who do not meet reading proficiency through any of these methods must enroll in RDG 079 and the co-requisite (if eligible). Otherwise, enrollment in RDG 030 will be required.

Students who are not native speakers of English may meet this prerequisite by earning at least a grade of "C" in ENG 070 or EML 072.

## Prerequisites and Developmental Education

Information about prerequisites and developmental education is available online on the **Registrar's Office webpage (https://stlcc.edu/office-of-the-registrar/prerequisites.aspx/)**.

## Course Levels

The course numbering system uses an abbreviation to identify the subject matter area and a three-digit number to identify the course level. Course levels are defined as follows:

| Code | Title | Credit Hours |
|---|---|---|
| 001-079 | Developmental courses | |
| 080-099 | Special topic developmental credit courses | |
| 100-199 | Beginning level credit courses | |
| 200-299 | Advanced level credit courses | |
| 300-399 | Baccalaureate degree advanced level credit courses | |
| 400-499 | Baccalaureate degree advanced level credit courses | |

| | |
|---|---|
| 500-599 | Special topic credit courses |
| 600-699 | Special topic credit courses |

### Example

DHY 150 Concepts in Clinical Dental Hygiene I: Pre-clinic

DHY indicates the subject area of Dental Hygiene. The number 150 indicates that the course is at the beginning level.

## Credit Hours

Unless otherwise noted in the course description, the credit hours listed indicate the number of lecture hours per week for a 16-week semester.

## Key to Abbreviations

| Code | Title | Credit Hours |
|---|---|---|
| ACC | Accounting (p. 427) | |
| ANT | Anthropology (p. 428) | |
| ARA | Arabic (p. 429) | |
| ART | Art (p. 429) | |
| AT | Art (p. 434) | |
| AUT | Automotive Technology (p. 436) | |
| BAP | Baking and Pastry (p. 438) | |
| BHS | Behavioral Health Support (p. 439) | |
| BIO | Biology (p. 440) | |
| BE | Biomedical Engineering Technology (p. 443) | |
| BTX | Biotechnology (p. 443) | |
| BIC | Building Inspection Technology (p. 444) | |
| BUS | Business Administration (p. 444) | |
| BLW | Business Law (p. 445) | |
| CMA | Certified Medical Assisting (p. 445) | |
| CHM | Chemistry (p. 445) | |
| CFD | Child and Family Development (p. 446) | |
| CHI | Chinese (p. 448) | |
| CE | Civil Engineering Technology (p. 449) | |
| CLT | Clinical Laboratory Technology (p. 449) | |
| COL | College Studies (p. 450) | |
| COM | Communications (p. 451) | |
| CIT | Computer Information Technology (p. 452) | |
| CRJ | Criminal Justice (p. 455) | |
| CT | Computed Tomography (p. 451) | |
| CUL | Culinary Arts (p. 456) | |
| DCS | Deaf Communication Studies (p. 458) | |
| DHY | Dental Hygiene (p. 460) | |
| DMS | Diagnostic Medical Sonography (p. 463) | |
| DIE | Diesel Technology (p. 467) | |
| ECO | Economics (p. 468) | |
| EDU | Education (p. 468) | |
| EE | Electrical/Electronic Engineering Technology (p. 469) | |
| EMT | Emergency Medical Technology (p. 470) | |
| EGR | Engineering Graphics (p. 470) | |
| ESC | Engineering Science (p. 471) | |
| ENG | English (p. 471) | |
| EML | English Multilingual Learner (p. 473) | |
| FIN | Finance (p. 474) | |

| | |
|---|---|
| FRE | French (p. 474) |
| FSE | Funeral Services Education (p. 475) |
| GID | Game and Interactive Design (p. 476) |
| GE | General Engineering (p. 476) |
| GEG | Geography (p. 476) |
| GEO | Geology (p. 477) |
| GST | Geospatial Technology (p. 477) |
| GER | German (p. 478) |
| GLE | Global Education (p. 478) |
| HW | Health and Wellness (p. 479) |
| HIM | Health Information Management (p. 481) |
| HS | Health Sciences (p. 483) |
| HST | History (p. 483) |
| HMS | Human Services (p. 488) |
| HRT | Horticulture (p. 484) |
| HTM | Hospitality and Tourism (p. 486) |
| HUM | Humanities (p. 489) |
| IS | Information Systems (p. 489) |
| IT | Information Technology (p. 492) |
| IDS | Interdisciplinary Studies (p. 494) |
| IB | International Business (p. 494) |
| JPN | Japanese (p. 495) |
| LGL | Legal Studies (p. 495) |
| LPN | Licensed Practical Nursing (p. 496) |
| LIB | Library and Information Studies (p. 496) |
| MRI | Magnetic Resonance Imaging (p. 497) |
| MGT | Management (p. 499) |
| MKT | Marketing (p. 499) |
| MCM | Mass Communications (p. 499) |
| MTH | Mathematics (p. 500) |
| ME | Mechanical Engineering Technology (p. 503) |
| MCE | Missouri Civics Examination (p. 504) |
| MUS | Music (p. 504) |
| NUR | Nursing (p. 507) |
| OTA | Occupational Therapy Assistant (p. 508) |
| PAR | Paramedic Technology (p. 510) |
| PRD | Personal Development (p. 511) |
| PHL | Philosophy (p. 511) |
| PSI | Physical Science (p. 512) |
| PTA | Physical Therapist Assistant (p. 512) |
| PHY | Physics (p. 513) |
| PSC | Political Science (p. 514) |
| PSY | Psychology (p. 514) |
| XRT | Radiologic Technology (p. 515) |
| RDG | Reading (p. 517) |
| RC | Respiratory Care (p. 517) |
| SKT | Skilled Trades (p. 520) |
| STR | Smart Start (p. 525) |
| SOC | Sociology (p. 525) |
| SPA | Spanish (p. 526) |
| ST | Surgical Technology (p. 526) |
| THT | Theatre (p. 527) |

| | |
|---|---|
| WEB | Web (p. 528) |
| WEL | Welding (p. 529) |

# Accounting (ACC)

## Course Descriptions

**ACC 100. Applied Accounting. 3 Credit Hours.**
Applied Accounting provides an overview of the basic principles of accounting and is designed to familiarize accounting, business, and career program students with the basic accounting system. An emphasis is placed on how accounting information and financial statements are prepared and used by business stakeholders.
Prerequisites: Reading Proficiency or concurrent enrollment in RDG 079

**ACC 110. Financial Accounting. 4 Credit Hours.**
Financial Accounting provides an introduction to the financial reporting of operations, cash flow, and financial position of corporate entities through general purpose financial statements. Emphasis is placed on the real-world environment of business, incorporating the development and interpretation of financial statements. (Credit is only allowed for either ACC 110 or ACC 101.)
Prerequisites: ACC 100 with a minimum grade of "C" or a high school accounting course or department approval, and Reading Proficiency

**ACC 114. Managerial Accounting. 3 Credit Hours.**
Managerial Accounting provides an introduction to the design and use of accounting information within an organization. The analysis of revenue and cost behavior is utilized for planning, directing, and controlling business operating activities. An emphasis is placed on the use of accounting data for business decision making. (Credit is only allowed for either ACC 114 or ACC 103.)
Prerequisites: ACC 110 with minimum grade of "C" and Reading Proficiency

**ACC 120. Computer Accounting Applications for Business. 3 Credit Hours.**
This survey course introduces various commercial accounting software in a hands-on environment. Topics covered include general ledger, receivables, payables, inventory, payroll, and importing and exporting accounting data to other software. The course provides an introduction to accounting applications of spreadsheet and presentation software and the Internet. No previous computer experience is necessary.
Prerequisites: ACC 100 with a minimum grade of "C" and/or ACC 110 with a minimum grade of "C" and/or department approval and Reading Proficiency

**ACC 122. Computer Accounting Applications - Spreadsheets. 3 Credit Hours.**
Computer Accounting Applications-Spreadsheets uses spreadsheet software as a tool in solving accounting problems and presenting and analyzing accounting data. Topics include using spreadsheet software to prepare accounting reports such as the income statement, balance sheet, statement of cash flow, and special purpose accounting reports for decision-making. Financial reports are analyzed using spreadsheet software. In addition, auditing a worksheet and graphical analysis of accounting information is performed using the charting feature of spreadsheet software.
Prerequisites: ACC 110 with a minimum grade of "C" and Reading Proficiency

**ACC 124. Computer Accounting Applications - Databases. 3 Credit Hours.**
This course covers how to build a database for accounts receivable, accounts payable, inventory, fixed assets and payroll.
Prerequisites: ACC 110 with a minimum grade of "C" or department approval and Reading Proficiency

**ACC 203. Cost Accounting. 3 Credit Hours.**
This course covers modern cost/managerial theory and practices with an emphasis on using cost information for managerial decision making.
Prerequisites: ACC 114 with a minimum grade of "C" or better and Reading Proficiency

**ACC 204. Income Tax Accounting. 3 Credit Hours.**
A study of federal tax accounting; emphasis is placed on the procedure required to comply with the tax laws and to make the required tax returns. Income tax, social security and payroll tax accounting is included.
Prerequisites: Reading Proficiency

**ACC 206. Auditing. 3 Credit Hours.**
This course teaches the procedures of examination of financial statements by external and internal auditors. Topics include auditing standards, development of working papers and reports, and development of sampling and original records examination.
Prerequisites: ACC 208 with a minimum grade of "C", ACC 209 with a minimum grade of "C," and Reading Proficiency

**ACC 208. Intermediate Accounting I. 3 Credit Hours.**
This course covers financial accounting theory relating to asset, liability and owner's equity accounts, including methods of valuation and the related effects on financial statements.
Prerequisites: ACC 114 with a minimum grade of "C" or department approval and Reading Proficiency

**ACC 209. Intermediate Accounting II. 3 Credit Hours.**
A further study of financial accounting theory. Topics will include intangible assets, current and long-term liabilities, equity, earnings per share, and investments.
Prerequisites: ACC 208 with a minimum grade of "C" or department approval and Reading Proficiency

**ACC 211. Current Topics in Accounting. 3 Credit Hours.**
Current Topics in Accounting examines the contemporary issues and emerging trends currently transforming the accounting profession. Students will assess the positions of interested parties in accounting reporting and taxation, analyze recent regulatory changes, explore the impact of disruptive technologies, and evaluate complex ethical dilemmas in modern practice.
Prerequisites: ACC 110 with a minimum grade of "C" and Reading Proficiency

**ACC 212. Nonprofit Accounting. 3 Credit Hours.**
The course addresses the principles, concepts and processes involved in the accounting treatment for nonprofit entities. Organizations discussed will include state and local governments, the federal government, college and universities, hospitals and health organizations, and other voluntary health and welfare organizations. (Credit is only allowed for either ACC 212 or ACC 513.)
Prerequisites: ACC 110 with a minimum grade of "C" or department approval and Reading Proficiency

**ACC 213. Survey of Business Taxes. 3 Credit Hours.**
This is a survey course of Business Taxes. Topics include federal taxation of income, state taxation of income, state capital base taxes, state sales and use tax, federal and state employment related taxes and property taxes. (Credit is only allowed for either ACC 213 or ACC 207.)
Prerequisites: ACC 110 with a minimum grade of "C" or department approval and Reading Proficiency

**ACC 214. Business Taxes: Research and Planning. 3 Credit Hours.**
This course concentrates on advanced business tax issues for partnerships, corporations, and S-corporations. Topics include tax planning, tax practice considerations, and tax research.
Prerequisites: Reading Proficiency

**ACC 215. Fraud and Forensic Accounting. 3 Credit Hours.**
Fraud and Forensic Accounting introduces students to current methodologies and work performed by forensic accountants. The concentration of this course focuses on current fraud issues. In addition, this course will educate students about the causes of fraud and explore the methods of detection, investigation, and prevention.
Prerequisites: ACC 208 with a minimum grade of "C" and Reading Proficiency

**ACC 291. Accounting Internship. 3 Credit Hours.**
An Accounting Internship allows students to apply skills learned in the classroom, learn new skills, and explore career opportunities while supervised by an employer and a faculty member. Working as an intern for 120 hours under the supervision of an accounting professional, the student will have the opportunity to participate in the accounting functions of an accounting firm, accounting department, or other business unit.
Prerequisites: Approval of department chair or program coordinator and Reading Proficiency

**ACC 292. Accounting Internship II. 3 Credit Hours.**
This is an additional internship opportunity for accounting students to apply skills learned in the classroom, learn new skills, and explore career opportunities while supervised by an employer and a faculty member. Working as an intern for 120 hours under the supervision of an accounting professional, the student will have the opportunity to participate in the accounting functions of an accounting firm, accounting department, or other business unit.
Prerequisites: Approval of department chair or program coordinator and Reading Proficiency

**ACC 293. Accounting Internship III. 3 Credit Hours.**
This is an additional internship opportunity for accounting students to apply skills learned in the classroom, learn new skills, and explore career opportunities while supervised by an employer and a faculty member. Working as an intern for 120 hours under the supervision of an accounting professional, the student will have the opportunity to participate in the accounting functions of an accounting firm, accounting department, or other business unit.
Prerequisites: Approval of department chair or program coordinator and Reading Proficiency

# Anthropology (ANT)

## Course Descriptions

**ANT 101. General Anthropology (MOTR ANTH 101). 3 Credit Hours.**
General Anthropology is the study of human beings, their ancestors, related primates, and their cultural behavior and institutions. This course introduces the major subfields of anthropology (anthropological archaeology, biological anthropology, linguistic anthropology, and cultural anthropology).
Prerequisites: Reading Proficiency or concurrent enrollment in RDG 079

**ANT 102. Introduction to Cultural Anthropology (MOTR ANTH 201). 3 Credit Hours.**
Introduction to Cultural Anthropology introduces students to the diversity of human culture and the idea of humans as creators of culture and society. This course uses the concepts and theories of cultural anthropologists to examine and analyze societies of various degrees of complexity.
Prerequisites: Reading Proficiency or concurrent enrollment in RDG 079

# Arabic (ARA)

## Course Descriptions

**ARA 101. Modern Arabic I (MOTR LANG 105). 4 Credit Hours.**
Modern Arabic I is a beginning course that presents sentence structure and vocabulary needed to communicate in basic Arabic conversations. Students also learn about the Arabic culture as they practice listening, speaking, reading, and writing in Arabic.
Prerequisites: Reading Proficiency

**ARA 102. Modern Arabic II (MOTR LANG 106). 4 Credit Hours.**
Modern Arabic II is a continuation of Modern Arabic I. The course expands vocabulary and grammar and encourages communication in Arabic using the present and past tenses. Students learn about culture as they practice listening, reading, writing, and speaking in Arabic.
Prerequisites: ARA 101 with a minimum grade of "C" or permission of the instructor, and Reading Proficiency

# Art (ART)

## Course Descriptions

**ART 100. Art Appreciation (MOTR ARTS 100). 3 Credit Hours.**
Art Appreciation is intended to stimulate student's visual, aesthetic, and intellectual awareness of our global artistic heritage. Both historic and thematic approaches to a wide variety of objects and media will develop students' abilities to evaluate and discuss the arts. This course is intended for non-art majors.
Prerequisites: Reading Proficiency or concurrent enrollment in RDG 079

**ART 101. Art History - Prehistory to 1300 (MOTR ARTS 101). 3 Credit Hours.**
Art History - Prehistory to 1300 is a survey of art before 1300 C.E. Works of art and characteristics of artistic styles are presented and discussed as manifestations of influential ideas from the following cultures or periods: Prehistoric, Mesopotamian, Egyptian, Aegean, Greek, Etruscan, Roman, Early Christian, Byzantine, Early and Late Medieval, and two or more Non-Western Cultures.
Prerequisites: Reading Proficiency

**ART 102. Art History - 1300 to Present (MOTR ARTS 102). 3 Credit Hours.**
Art History - 1300 to Present is a survey of art after 1300 C.E. Works of art and characteristics of artistic styles are presented and discussed as manifestations of influential ideas from the following periods or styles: Proto-Renaissance, Early Italian Renaissance, Early and Late Northern Renaissance, High Renaissance, Mannerism, Baroque, Rococo, selected 19th and 20th Century styles, and two or more Non-Western cultures.
Prerequisites: Reading Proficiency

**ART 103. History of Modern Art (MOTR ARTS 100). 3 Credit Hours.**
History of Modern Art surveys modern art beginning with the late-18th century and proceeding through the work of contemporary artists. Recurrent themes from the following periods will be examined: Impressionism, Cubism, Surrealism, Abstract Expressionism, and other modern and contemporary styles.
Prerequisites: Reading Proficiency

**ART 109. Drawing I (MOTR PERF 105D). 3 Credit Hours.**
Drawing I provides an introduction to drawing principles, construction, proportion, form, value, perspective, composition, tools, and media. Perception, visual sensitivity, and critical thinking are all stressed.
Prerequisites: Reading Proficiency

**ART 110. Drawing II. 3 Credit Hours.**
A continuation of ART 109, the fundamentals and principles of drawing, with more emphasis on organizational concepts and a variety of media. Additional studio hours required.
Prerequisites: ART 109 with a minimum grade of "C" and Reading Proficiency

**ART 111. Figure Drawing I. 3 Credit Hours.**
Figure Drawing I provides an introduction to drawing the human figure. Exercises will include direct observation of life models. Anatomical form, proportion, structure, and gesture will be emphasized.
Prerequisites: Reading Proficiency

**ART 112. Figure Drawing II. 3 Credit Hours.**
Continuation of ART 111. Emphasizes the use of various drawing media. Analysis of the structure of the human figure through anatomy. Additional studio hours required.
Prerequisites: ART 111 with a minimum grade of "C" and Reading Proficiency

**ART 113. Ceramics I (MOTR PERF 105C). 3 Credit Hours.**
Ceramics I is a study of the basic principles of ceramics and ceramic sculpture with introductions to traditional and contemporary ideas and techniques. (Credit is only allowed for either ART 113 or ART 212.)
Prerequisites: Reading Proficiency

**ART 114. Painting I. 3 Credit Hours.**
An introduction to oil painting from still-life objects, with emphasis on technique and the effective use of color. Composition and drawing will be stressed as they relate to painting. Additional studio hours required. (Credit is only allowed for either ART 114 or ART 222.)
Prerequisites: ART 109 with a minimum grade of "C" and Reading Proficiency

**ART 115. Printmaking I (MOTR PERF 105GA). 3 Credit Hours.**
Printmaking I provides an introduction to traditional and contemporary printmaking. Students produce prints in a variety of techniques while learning proper use of tools and materials appropriate to each method. Students will strengthen their critical skills by analyzing and evaluating prints, including their own work, that of their classmates, and significant examples pulled from printmaking history and contemporary art. (Credit is only allowed for either ART 115 or ART 225.)
Prerequisites: Reading Proficiency

**ART 116. Sculpture I (MOTR PERF 105S). 3 Credit Hours.**
Sculpture I is an introduction to fundamental concepts of sculpture including object making and non-object oriented compositions. Basic materials and methods will be explored. (Credit is only allowed for either ART 116 or ART 219.)
Prerequisites: Reading Proficiency

**ART 131. Computer Art Studio. 3 Credit Hours.**
Computer Art Studio introduces students to the primary methods, practices, and software programs used in various design industries. Projects will be developed using digital illustration, photo editing, and layout design applications. (Credit is only allowed for either ART 131 or ART 122.)
Prerequisites: Reading Proficiency

**ART 133. Graphic Design I. 3 Credit Hours.**
Graphic Design I is an introduction to visual communications with an emphasis on the foundational components and principles of the profession. Projects will employ basic layout processes, typography, concept generation, and the use of tools and materials required in the field. Contemporary and historic examples of art, design, and advertising will be studied. (Credit is only allowed for either ART 133 or ART 123.)
Prerequisites: Reading Proficiency

**ART 134. Graphic Design II. 3 Credit Hours.**
Graphic Design II explores visual communications practices with an emphasis on logo development and branding, various layout formats for print and online scenarios, the creative use of typography, color systems and theory, concept origination and development, and important historic aspects of graphic design. (Credit is only allowed for either ART 134 or ART 124.)
Prerequisites: ART 140, ART 131, and ART 133 with minimum grades of "C" and Reading Proficiency

**ART 135. Graphic Production. 2 Credit Hours.**
Graphic Production focuses on the history of design production and the fundamentals of various contemporary commercial printing processes. The course emphasizes the proper preparation of electronic pre-press files for spot-color, multi-color, and process-color print production, the selection of printing papers, and effective communication with printing suppliers. It also covers design printing challenges, multi-page document preparation, and file preparation for electronic publication.
Prerequisites: ART 131 and ART 133 with minimum grades of "C" and Reading Proficiency

**ART 138. Drawing and Rendering for Graphics. 3 Credit Hours.**
Drawing and Rendering for Graphics emphasizes the traditional and digital processes of drawing, composition, perspective, and concept development as it relates to graphic design. Original drawings for projects will be created to convey design concepts using models, photographs, and other reference material. (Credit is only allowed for either ART 138 or ART 237.)
Prerequisites: ART 140 and ART 109 with minimum grades of "C" and Reading Proficiency

**ART 140. Two-Dimensional Design. 3 Credit Hours.**
Two-Dimensional Design provides an introduction to the basic two-dimensional elements of fine art and design: line, shape, value, texture, space, and color. Through a series of projects, students will manipulate these elements to learn the principles of two-dimensional design: balance, proportion, emphasis, movement, repetition, rhythm, and unity. Students will strengthen their critical skills by analyzing and evaluating contemporary work as well as compositions from the Modernist era of art history and before. (Credit is only allowed for either ART 140 or ART 107 and ART 108.)
Prerequisites: Reading Proficiency

**ART 150. Design Communication for Interior Design and Architecture. 3 Credit Hours.**
Design Communication for Interior Design and Architecture provides an introduction to graphic communication techniques as a way to communicate architecture and interior design processes and solutions. Utilizing traditional and digital methods, students will gain experience in perspective drawing, rendering, sketching, layout, and composition.
Prerequisites: ART 154 with a minimum grade of "C" and Reading Proficiency

**ART 151. Interior Design I. 3 Credit Hours.**
Interior Design I introduces students to interior space planning and the application of basic design principles and color theory to interior environments. Emphasis is placed on architectural drafting and the design and selection of interior finishes, furniture, and other interior components. (Credit is only allowed for either ART 151 or ART 229.)
Prerequisites: Concurrent or prior enrollment in ART 154 with a minimum grade of "C" and Reading Proficiency

**ART 153. History of Cultural Environments I. 3 Credit Hours.**
History of Cultural Environments I surveys the history of architecture, interior design, furniture, and decorative arts from prehistory to the industrial revolution. The course examines the materials, techniques, and aesthetics that make environments unique within their historical cultural environments.
Prerequisites: Reading Proficiency

**ART 154. Architectural Graphics and Technology I. 3 Credit Hours.**
Architectural Graphics and Technology I introduces students to the fundamentals of architectural drafting using hand drafting techniques and computer-aided drafting software currently utilized in the architecture and interior design industries. Students will apply architectural graphic standards in the creation of floor plans, elevations, and construction documents. (Credit is allowed for only one of the following courses: ART 154, ART 255, AT 203, or AT 524.)
Prerequisites: Reading Proficiency

**ART 158. Workplace Learning: Kitchen and Bath Design. 3 Credit Hours.**
Workplace Learning: Kitchen and Bath Design is an experiential learning course which provides the student the opportunity to apply theory and skills learned in the classroom, learn new skills, and explore career possibilities while supervised by a professional in the field and a faculty member. Minimum of 150 hours in the workplace throughout the term.
Prerequisites: ART 155, ART 156, and AT 251 with minimum grades of "C" and Reading Proficiency

**ART 165. Photography I (MOTR PERF 105GA). 3 Credit Hours.**
Photography I provides an introduction to the settings and creative controls of the camera, as well as the craft of black and white printing. Students will learn traditional darkroom techniques, as well as methods for approaching a variety of subjects and improving photographic compositions.
Prerequisites: Reading Proficiency

**ART 166. Photography II. 3 Credit Hours.**
Photography II provides a concentrated study of photographic aesthetics, printing techniques, and portfolio development. Conceptual approaches, as well as more enhanced methods of using and presenting images, are also explored in this course.
Prerequisites: ART 165 with a minimum grade of "C" and Reading Proficiency

**ART 168. History of Photography. 3 Credit Hours.**
This course explores the understanding of photography as a cultural, commercial and aesthetic endeavor. Significant historical events, techniques, equipment, aesthetic trends and individual contributions that have influenced this art form throughout the world are discussed and analyzed.
Prerequisites: Reading Proficiency

**ART 169. Concepts in the Visual Arts (MOTR ARTS 100). 3 Credit Hours.**
Concepts in the Visual Arts explores how the evolution of painting, sculpture, illustration, photography, and digital media has reflected transformations of both cultural and personal ideas over hundreds of years. Visual images play a key role in societal communication and expression, and the goals of the class include gaining skills in addressing and evaluating messages conveyed through visual media, along with their social context and impacts. (Credit is only allowed for either ART 169 or ART 118.)
Prerequisites: Reading Proficiency

**ART 172. Digital Photography (MOTR PERF 105GA). 3 Credit Hours.**
Digital Photography introduces the mechanics of the digital camera, image adjustments through software programs, and printing from a computer. Students will follow guided exercises and projects and produce portfolios of prints using digital printers. (Credit is only allowed for either ART 172 or ART 505.)
Prerequisites: Reading Proficiency

**ART 186. Building Systems and Construction for Interior Designers. 3 Credit Hours.**
This course explores building construction, systems and technology and their relationship to design development and project completion.
Prerequisites: Reading Proficiency

**ART 204. Photography III. 3 Credit Hours.**
This course is a continuation of the exploration of the photographic process and techniques begun in Photography I and Photography II, with a greater emphasis being placed on the creative process and the individual's perception and understanding of the elusive nature of images. Additional studio hours required.
Prerequisites: ART 166 and ART 172 with minimum grades of "C" and Reading Proficiency

**ART 207. Three-Dimensional Design. 3 Credit Hours.**
Three-Dimensional Design is an introduction to three-dimensional language and expression. Students will use a variety of materials and methods to explore compositions in three dimensions. (Credit is only allowed for either ART 207 or ART 201.)
Prerequisites: Reading Proficiency

**ART 210. Advanced Drawing. 3 Credit Hours.**
Advanced Drawing emphasizes continued improvement of drawing skills developed in prerequisite coursework, with more advanced exploration of materials, methods, concept development, and personal expression. Some selected projects may use the human figure, still life objects, or physical environments as subjects. Other projects may be entirely nonrepresentational.
Prerequisites: ART 110 and ART 112 with minimum grades of "C" and Reading Proficiency

**ART 213. Ceramics II. 3 Credit Hours.**
Ceramics II builds on concepts from Ceramics I and expands the study of form, surface, and finishing techniques by producing functional and/or sculptural work.
Prerequisites: ART 113 with a minimum grade of "C" and Reading Proficiency

**ART 214. Painting II. 3 Credit Hours.**
A continuation of ART 114 with emphasis on composition and color. Knowledge will be developed for future individual study. Additional studio hours required. (Credit is only allowed for either ART 214 or ART 223.)
Prerequisites: ART 114 with a minimum grade of "C" and Reading Proficiency

**ART 215. Printmaking II. 3 Credit Hours.**
A continuation of ART 115. In addition to continued exploration of media covered in Printmaking I, this course introduces students to additional printmaking techniques, from a selection of lithography, silk screen, photo-mechanical methods, chine chine collé and mixed media. Additional studio hours required. (Credit is only allowed for either ART 215 or ART 226.)
Prerequisites: ART 115 with a minimum grade of "C" and Reading Proficiency

**ART 216. Sculpture II. 3 Credit Hours.**
Sculpture II provides advanced study for students who have completed Sculpture I. This course offers the opportunity to further explore materials and methods, art historical influences, and personal creative interests. Students will engage in the process of art-making from concept development to the physical construction of sculptural compositions. (Credit is only allowed for either ART 216 or ART 220.)
Prerequisites: ART 116 with a minimum grade of "C" and Reading Proficiency

**ART 228. Workplace Learning: Photography. 3 Credit Hours.**
This experiential course provides the student the opportunity to apply theory and skills learned in the classroom, learn new skills, and explore career possibilities while supervised by a professional in the field and a faculty member. Students will observe and participate in the functions of the business to enhance their preparation for entering the field. Minimum of 150 hours in the workplace throughout the term. (Credit is only allowed for either ART 228 or ART 577.)
Prerequisites: ART 166 and ART 167 with minimum grades of "C", department approval and Reading Proficiency

**ART 233. Graphic Design III. 3 Credit Hours.**
Graphic Design III will examine and engage in advanced methods of visual communications with an emphasis on developing creative solutions to complex design problems. A professional approach to the discipline will be stressed with client-centered discourse and outcomes finalized through the critique process. (Credit is only allowed for either ART 233 or ART 293.)
Prerequisites: ART 134 with a minimum grade of "C" and Reading Proficiency

**ART 234. Graphic Design IV. 3 Credit Hours.**
Graphic Design IV is an advanced exploration of graphic communications that emphasizes creative problem solving through professional practices. Outcomes will be accomplished through the development of projects that demonstrate excellence in design while deploying multiple components in print, screen, and interactive modalities. (Credit is only allowed for either ART 234 or ART 294.)
Prerequisites: ART 233 and ART 236 with minimum grades of "C" and Reading Proficiency

**ART 236. Typography. 3 Credit Hours.**
Typography stresses the refined use of typesetting as a primary design and communications tool. Coursework examines contemporary, historic, and regional styles of letterforms and their use. The development of a sensitivity towards appropriate use of type and hierarchy in design, combined with projects that challenge and promote conceptual skills, digital expertise, and problem-solving methods, is emphasized.
Prerequisites: ART 131 and ART 133 with minimum grades of "C" and Reading Proficiency

**ART 239. Editorial and Commercial Illustration. 3 Credit Hours.**
Editorial and Commercial Illustration explores concept development and visual narratives in illustration, drawing, and painting. Emphasis is on realistic drawing, product rendering, and modeling using expressive, historical, and contemporary contexts.
Prerequisites: ART 131 with a minimum grade of "C" and concurrent or prior enrollment in ART 138 and ART 111 with minimum grades of "C", and Reading Proficiency

**ART 240. Digital Illustration. 3 Credit Hours.**
Digital Illustration combines traditional drawing and digital rendering with tools, media, and software to create and explore comprehensive concept development of visual narratives and design-related illustration challenges. Imagery and typography will be integrated to produce commercially applicable projects. (Credit is only allowed for either ART 240 or ART 248.)
Prerequisites: ART 239 with a minimum grade of "C" and Reading Proficiency

**ART 245. Portfolio Design and Workplace Preparation. 3 Credit Hours.**
Portfolio Design and Workplace Preparation is the capstone of the Graphic Communications degree. Students are guided in the development of print and on-line portfolios and support materials that comprehensively demonstrate a successful culmination of their design studies as they prepare to enter the graphic communications profession and / or transfer to an accredited four-year university or art institute. (Credit is only allowed for either ART 245 or ART 295.)
Prerequisites: ART 236 and ART 134 with a minimum grade of "C" and Reading Proficiency

**ART 249. Digital Photography II. 3 Credit Hours.**
Digital Photography II explores advanced techniques and aesthetics associated with digital photography. Students expand their knowledge and use of camera controls, editing software, and workflow solutions while building a portfolio of images.
Prerequisites: ART 172 with a minimum grade of "C" and Reading Proficiency

**ART 251. Interior Design II. 3 Credit Hours.**
Interior Design II focuses on creating functional and aesthetically pleasing commercial and residential interiors using a systematic approach to the design process. Special emphasis is placed on commercial and residential planning guidelines and the impact of building and life safety codes on interior environments. (Credit is only allowed for either ART 251 or ART 230.)
Prerequisites: ART 154 and ART 151 with a grade of "C" or better and Reading Proficiency
Corequisites: ART 150

**ART 252. Interior Design III. 3 Credit Hours.**
This course is an in-depth study of interior design, emphasizing the influence of abstract design, universal design, global design, and sustainable practices on the built environment. A systematic approach to design processes will be used to develop projects that apply knowledge of space planning, principles and elements of design, color theory, and visual art skills in two-dimensional and three-dimensional design. Additional studio hours required.
Prerequisites: ART 251 with a minimum grade of "C" and Reading Proficiency

**ART 253. Interior Design IV. 3 Credit Hours.**
This course is an advanced study and application of the problem-solving approach to the design of the built environment. This course will also introduce students to the ethical standards and business procedures of the interior design industry. Additional studio hours required.
Prerequisites: ART 252 with a minimum grade of "C" and Reading Proficiency

**ART 254. History of Cultural Environments II. 3 Credit Hours.**
History of Cultural Environments II surveys the history of architecture, interior design, furniture, and decorative arts since the Industrial Revolution. The course examines the materials, techniques, and aesthetics that make environments unique within their historical cultural environments.
Prerequisites: ART 153 with a minimum grade of "C" and Reading Proficiency

**ART 265. Artificial Light Photography. 3 Credit Hours.**
Artificial Light Photography introduces basic theories of illumination, as applied to various subjects in the photographic studio and on location. The utilization of a variety of light sources within these contexts is studied, along with their proper use with digital cameras. The production of professional quality files and prints is also undertaken. (Credit is only allowed for either ART 265 or ART 218.)
Prerequisites: ART 165 or ART 172 with a minimum grade of "C" and Reading Proficiency

**ART 267. Contemporary Concepts in Photography. 3 Credit Hours.**
Contemporary Concepts in Photography focuses on current issues and ideas about photography. Themes and approaches that address a range of conceptual, documentary, and personal ideas are addressed and practiced. Varied presentation methods and image refinements are also considered. Field trips are required for this course.
Prerequisites: ART 165 or ART 172 with a minimum grade of "C" and Reading Proficiency

**ART 269. Field Photography. 3 Credit Hours.**
Field Photography emphasizes photographing subject matter found in nature. Field trips to gardens and regional parks provide students the opportunity to explore and visually portray elements within natural environments. Attention is especially given to methods for adapting to varied lighting and environmental situations.
Prerequisites: ART 165 or ART 172 with a minimum grade of "C" and Reading Proficiency

**ART 271. Portrait Photography. 3 Credit Hours.**
Portrait Photography explores photographic techniques used to create effective images of people, using both natural and artificial illumination. Close-ups, environmental portraits, and photographing groups are studied. Work also includes methods of retouching and the building of a successful portfolio for presentation. Field trips may be utilized for this course.
Prerequisites: ART 165 with a minimum grade of "C" or ART 172 with a minimum grade of "C" and Reading Proficiency

**ART 272. Documentary Photography. 3 Credit Hours.**
Documentary Photography explores the ways in which photography can depict social or cultural issues. The methods of approach used by documentary photographers are discussed and practiced, with students considering the possible impact of images on society. Through field trips and personal engagement, students use cameras to study subjects in their own environments and will consider various contexts for the presentation of photographs.
Prerequisites: ART 165 or ART 172 with a minimum grade of "C" and Reading Proficiency

**ART 273. Architectural Photography. 3 Credit Hours.**
Architectural Photography explores the methods for photographing both the exteriors and interiors of structures and buildings. Perspective controls and the understanding and use of a variety of lenses and camera formats will be explored in this course, with attention to lighting and visual balance being emphasized. (Credit is only allowed for either ART 273 or ART 286.)
Prerequisites: ART 165 with a minimum grade of "C" or ART 172 with a minimum grade of "C" and Reading Proficiency

**ART 275. Photo Imaging I: Photoshop (MOTR PERF 105GA). 3 Credit Hours.**
Photo Imaging I: Photoshop is an investigation of processing image files. Software tools and adjustment controls will be learned. Students will investigate scanning, color and tonal management, image repair, compositing, and printing. (Credit is only allowed for either ART 275 or ART 203.)
Prerequisites: Reading Proficiency

# Art (AT)

## Course Descriptions

**AT 121. Watercolor I. 3 Credit Hours.**
A foundation course covering basic watercolor techniques and materials including washes, wet-into-wet, glazing, shading, color mixing and layering. Course will emphasize development of skills, diverse approaches and an individual style. Through the study of both contemporary and traditional watercolors, students will become familiar with the amazing potential of this medium. Class will paint a variety of subjects including still lifes and nature. Additional studio hours required. (Credit is only allowed for either AT 121 or ART 571.)
Prerequisites: Reading Proficiency

**AT 135. Web Design I. 3 Credit Hours.**
Web Design I builds a foundation for researching, creating, and developing online experiences that effectively deliver design and content for web-based communications. Industry-standard software will be used, and basic coding and style languages will be covered.
Prerequisites: ART 131 and ART 133 with minimum grades of "C" and Reading Proficiency

**AT 143. Web Design II. 3 Credit Hours.**
Web Design II stresses advanced methods and practices of creating experiences in interactive and online digital media. Students learn and use contemporary web languages, styling, and study content management systems. User-centered design and interactivity for a variety of devices is investigated.
Prerequisites: AT 135 with a minimum grade of "C" and Reading Proficiency

**AT 151. Interior Specifications, Materials, and Methods. 3 Credit Hours.**
This course is an in depth analysis of materials used in interior environments. Students will gain experience in the process of researching, evaluating, selecting, and specifying appropriate materials for interior environments. Special emphasis is placed on textiles and sustainable materials. (Credit is only allowed for either AT 151 or ART 119.)
Prerequisites: Reading Proficiency

**AT 152. Lighting Design. 3 Credit Hours.**
Lighting Design introduces students to the functional and technical aspects of designing interior environments utilizing artificial and natural lighting. Topics include lighting sources, fixture selection, color and human response, lighting calculations, codes, and application of lighting principles to residential and commercial interior design projects.
Prerequisites: ART 151 with a minimum grade of "C" and Reading Proficiency

**AT 175. Video Art I. 3 Credit Hours.**
Students will explore video art as a personal expressive media for the individual artist, including work with specific software programs, sound equipment, and other tools used in the contemporary art world. Students will have the opportunity to investigate these technologies as they combine the various media to make artistic statements based on personal concerns and aesthetic decisions. (Credit is only allowed for either AT 175 or ART 289.)
Prerequisites: Reading Proficiency

**AT 177. Jewelry and Metalsmithing. 3 Credit Hours.**
Jewelry and Metalsmithing introduces students to jewelry design and metalsmithing techniques. Students are exposed to a variety of fabrication methods from a selection of cold-joining, soldering, sawing and piercing, metal forming, roll-printing, hammer and chasing, toll texturing, bezel stone-setting, pin backing systems, casting, and surface finishing.
Prerequisites: Reading Proficiency

**AT 195. Special Topics in Graphic Design. 1-3 Credit Hours.**
This course allows for the exploration of special topics as they emerge in the field of graphic design, maintaining a curriculum of problem solving and critical thinking. Additional hours required.
Prerequisites: ART 131 and ART 133 with minimum grades of "C" and Reading Proficiency

**AT 204. Comic Book Illustration I. 3 Credit Hours.**
This course emphasizes the basics of comic book illustration and techniques associated with this popular genre. Various materials and techniques will be explored to produce formatted comic strips. Additional lab hours required. (Credit is only allowed for either AT 204 or AT 596.)
Prerequisites: ART 138 with a minimum grade of "C" and Reading Proficiency

**AT 205. Dimensional Illustration I. 3 Credit Hours.**
Students interested in Illustration will go beyond usual two-dimensional art methods to create dimensional art. Various material and techniques will be explored to introduce unique three-dimensional sculpture-based art methods to students. Additional studio hours required. (Credit is only allowed for either AT 205 or AT 560.)
Prerequisites: ART 138 with a minimum grade of "C" and Reading Proficiency

**AT 207. Motion Media Design. 3 Credit Hours.**
Motion Media Design challenges students to use still imagery, typography, sound, special effects, video and other digital media to develop animated, motion graphic sequences and short videos in a design and communications context. Industry standard software and related technology is used to create projects that demonstrate and combine technical skills with conceptual themes.
Prerequisites: ART 131 and ART 133 with a minimum grade of "C" and Reading Proficiency

**AT 208. Fantasy Illustration I. 3 Credit Hours.**
Students interested in Illustration will learn the basics and techniques used on books and gaming covers. The student will utilize skills learned in drawing for graphics and illustration to execute imaginative and creative illustrations. Additional lab hours required. (Credit is only allowed for either AT 208 or AT 587.)
Prerequisites: ART 138 with a minimum grade of "C" and Reading Proficiency

**AT 210. Drawing Problems. 3 Credit Hours.**
This course focuses on drawing problems of an advanced nature. It will stress the continued development of individual ideas formulated in ART 210. Additional lab hours required. (Credit is only allowed for either AT 210 or AT 553.)
Prerequisites: ART 210 with a minimum grade of "C" and Reading Proficiency

**AT 212. Special Topics in Photography. 3 Credit Hours.**
Special Topics in Photography allows for specialized study within the medium of photography by concentrating on a select set of materials, techniques, concepts, or aesthetic issues.
Prerequisites: Reading Proficiency

**AT 213. Advanced Ceramics. 3 Credit Hours.**
A self-directed learning experience for students. Course work may include throwing, glaze formulation, hand-building and kiln firing. Additional studio hours required.
Prerequisites: ART 213 with a minimum grade of "C" and Reading Proficiency

**AT 215. Advanced Printmaking. 3 Credit Hours.**
A continuation of ART 115 and ART 215. Students will pursue a more individual course of instruction and portfolio development in the printmaking media. The student will choose from media taught in ART 115 and ART 215 to develop a portfolio of professional prints. Additional studio hours required. (Credit is only allowed for either AT 215 or ART 504.)
Prerequisites: ART 215 with a minimum grade of "C" or permission of coordinator and Reading Proficiency

**AT 221. Watercolor II. 3 Credit Hours.**
An expansion and application of the basic watercolor techniques from the foundation course AT 121 through a series of paintings. Course will emphasize color theory, composition and development of an individual style along with study of master watercolorists both past and present. Students will paint a variety of subjects including still lifes, landscape and the human figure. Development of individual response and fluency of technique will be emphasized. Additional studio hours required. (Credit is only allowed for either AT 221 or ART 598.)
Prerequisites: AT 121 with a minimum grade of "C" or permission of coordinator and Reading Proficiency

**AT 225. Watercolor III. 3 Credit Hours.**
An expansion of AT 221. The self-motivated student will work on advanced watercolor techniques in specific assignments and in self-directed paintings. Course will emphasize advanced color theory and development of content, subject matter, personal style and the ability to self-critique, with significant input from the instructor. Additional studio hours required. (Credit is only allowed for either AT 225 or AT 504.)
Prerequisites: AT 221 with a minimum grade of "C" or permission of coordinator and Reading Proficiency

**AT 227. Three-Dimensional Studio. 3 Credit Hours.**
Three-Dimensional Studio provides the opportunity for students to pursue focused study in three-dimensional expression. Emphasis will be placed on concept development and empower the student to explore themes of personal interest. (Credit is only allowed for either AT 227 or AT 117.)
Prerequisites: AT 213 with a minimum grade of "C" or ART 216 with a minimum grade of "C" and Reading Proficiency

**AT 229. Advanced Painting Projects. 3 Credit Hours.**
This course will develop the painting and perceptual skills of students. The course is taught with an emphasis on individual study. Additional studio hours required. (Credit is only allowed for either AT 229 or ART 502.)
Prerequisites: ART 214 with a minimum grade of "C" and Reading Proficiency

**AT 233. Concept Development for Animation. 3 Credit Hours.**
Concept Development for Animation explores artistic techniques, storyboarding, and design principles used in creating compelling visual narratives. Students utilize industry-standard tools and technologies to solve various creative problems through the use of sequential art and visual development projects for advertisements, video games, and animations. (Credit is only allowed for either AT 233 or ART 279.)
Prerequisites: ART 111 and ART 131 with minimum grades of "C" and Reading Proficiency

**AT 234. Fundamentals of Animation. 3 Credit Hours.**
Fundamentals of Animation explores tools and techniques used by professional animators to create convincing illusions and natural motion. Students learn the principles of animation and apply them to the production of original moving sequences. Emphasis is on deliberate timing, believable form structure, and expressive movement. (Credit is only allowed for either AT 234 or ART 276.)
Prerequisites: ART 111 and ART 133 with minimum grades of "C" and Reading Proficiency

**AT 235. Advanced Motion and Interactive Design. 3 Credit Hours.**
Advanced Motion and Interactive Design explores techniques for the planning, development, and execution of animated videos and interactive projects. A primary emphasis is the combining of dynamic aesthetic and contemporary digital practices in the creation of user-centered designs and motion-based narratives. (Credit is only allowed for either AT 235 or AT 546.)
Prerequisites: ART 233 or AT 233 with minimum grade of “C” and Reading Proficiency

**AT 242. History of Graphic Communications. 3 Credit Hours.**
History of Graphic Communications examines the major eras, styles, and developments of design and applied arts from the dawn of writing until present day. The course uses a global perspective to investigate technological progress, regional innovations, political influences, and cultural contexts of graphic communications across the vast and evolving design professions. (Credit is only allowed for either AT 242 or AT 202.)
Prerequisites: Reading Proficiency

**AT 246. Advanced Computer Art Applications. 3 Credit Hours.**
Advanced Computer Art Applications uses industry-standard software for the purpose and development of expressive digital techniques, creative dimensional designs, and exploratory image making methods that apply to graphic communications and illustration studies.
Prerequisites: ART 131 and ART 133 with minimum grades of "C" and Reading Proficiency

**AT 254. Workplace Learning: Interior Design. 3 Credit Hours.**
Workplace Learning: Interior Design is an experiential course that provides the student the opportunity to apply theory and skills learned in the classroom, learn new skills, and explore career possibilities while supervised by a professional in the field and a faculty member. Students observe and participate in the functions of the interior design industry to enhance their preparation for entering the field. Students complete a minimum of 150 hours in the workplace throughout the term.
Prerequisites: ART 251 with a minimum grade of "C" and Reading Proficiency

**AT 276. Photo Imaging II: Photoshop. 3 Credit Hours.**
This course explores intermediate methods of working with continuous tone images in an efficient manner. Topics include refinements in tonal and color adjustment tools, masking tools, typography tools, color modes, sharpening procedures, and compositing techniques. A portfolio of color images will be produced by the end of the course emphasizing the individual expressiveness of the student. Additional studio hours required. (Credit is only allowed for either AT 276 or ART 206.)
Prerequisites: ART 275 with a minimum grade of "C", concurrent or prior enrollment in ART 108 with a minimum grade of "C" and Reading Proficiency

**AT 279. Alternative Photographic Processes. 3 Credit Hours.**
Alternative Photographic Processes explores the use of non-traditional methods, and a variety of hand-applied emulsions, to produce photographic images. Students have the opportunity to create prints using historic processes on a variety of papers or fabrics, as well as working with other light-based formats.
Prerequisites: ART 165 with a minimum grade of "C" and Reading Proficiency

**AT 280. Advanced Photography. 1-4 Credit Hours.**
This course is a course that emphasizes both the conceptual and technical challenges of creating a cohesive, related body of work for either a portfolio or exhibition. Additional lab hours required. (Credit is only allowed for either AT 280 or ART 503.)
Prerequisites: ART 166 and ART 172 with minimum grades of "C" and Reading Proficiency

**AT 282. Workplace Learning: Graphic Communications. 1-3 Credit Hours.**
This experiential course provides the student the opportunity to apply theory and skills learned in the classroom, learn new skills, and explore career possibilities while supervised by a professional in the field and a faculty member. Students will observe and participate in the functions of the business to enhance their preparation for entering the field. Minimum of 50 hours per credit in the workplace throughout the term is required.
Prerequisites: ART 234 with a minimum grade of "C" and Reading Proficiency

**AT 287. Architectural Graphics and Technology II. 3 Credit Hours.**
Architectural Graphics and Technology II builds upon previous computer-aided interior design knowledge and introduces students to methods for utilizing building information modeling (BIM) software to create interior design drawings. Students will create presentation drawings, construction documents, schedules, and construction details for interior environments utilizing BIM software.
Prerequisites: ART 154 and ART 251 with minimum grades of "C", and Reading Proficiency

**AT 291. Fine Art Portfolio and Professional Practices. 3 Credit Hours.**
Fine Art Portfolio and Professional Practices is advanced studio work with an individualized focus. A variety of art media may be employed based on the student's concentration. The development of professional practices will be emphasized. Topics covered may include resume writing, creating an artist's statement, developing promotional materials and a personal art website, gallery etiquette, and presenting one's work in a professional manner.
Prerequisites: ART 210 with a minimum grade of "C" and Reading Proficiency

# Automotive Technology (AUT)

## Course Descriptions

**AUT 101. Automotive Fundamentals and Service Information. 3 Credit Hours.**
Automotive Fundamentals and Service Information is an entry-level course that exposes the student to all aspects of automotive safety procedures and precautions. Additionally, students receive training on what types of electronic service information is available for technicians and how to access vehicle-specific repair procedures and specifications. Students will also become proficient using precision measuring tools using metric and standard measurements. (Credit is only allowed for either AUT 101 or AUT 520.)
Prerequisites: Reading Proficiency

**AUT 103. Automotive Vehicle Inspection and Light Maintenance. 3 Credit Hours.**
Automotive Vehicle Inspection and Light Maintenance will illustrate the fundamentals of basic vehicle maintenance and inspection for entry-level employment. Students will gain experience in the course from instructor-led lectures and hands-on application of identifying and performing typical light maintenance and inspection procedures. (Credit is only allowed for either AUT 103 or AUT 521.)
Prerequisites: Concurrent or prior enrollment in AUT 101 with a minimum grade of "C" and Reading Proficiency

**AUT 105. Automotive Maintenance and Service. 3 Credit Hours.**
Automotive Maintenance and Service teaches students entry-level skills to properly inspect, maintain, and service a modern vehicle. Students will gain exposure to various types of automotive fluids and learn how to properly exchange those fluids in accordance with the manufacturer's procedures. Additionally, students will learn how to replace common maintenance items such as wiper blades, automotive lights, and filters. This course will also cover how to properly dismount, repair, and mount a tire on a wheel and balance the assembly. (Credit is only allowed for either AUT 105 or AUT 522.)
Prerequisites: Concurrent or prior enrollment in AUT 101 and AUT 103 with minimum grades of "C", and Reading Proficiency

**AUT 107. Automotive Steering and Suspension Service. 3 Credit Hours.**
Automotive Steering and Suspension Service explores various types of steering and suspension designs and teaches detailed component testing procedures. Components include ball joints, struts, tie rod ends, and bushings. Students will also gain in-depth knowledge of performing two and four-wheel alignments using current wheel alignment technology. (Credit is allowed for only one of the following courses: AUT 107, AUT 168, or AUT 523.)
Prerequisites: Concurrent or prior enrollment in AUT 101, AUT 103, AUT 105 with minimum grades of "C", and Reading Proficiency

**AUT 110. Automotive Electrical Principles. 3 Credit Hours.**
Automotive Electrical Principles will build the foundation for direct current (DC) electricity. Students will learn the relationship between electrical circuits and units of electrical measurements while using a digital multi-meter (DMM). Students will gain practical experience in testing, diagnosing, and repairing electrical circuits and components on modern vehicles. An emphasis will be placed on ignition systems, starting, charging, and lighting circuits. (Credit is only allowed for either AUT 110 or AUT 156.)
Prerequisites: Concurrent or prior enrollment in AUT 101 with a minimum grade of "C" and Reading Proficiency

**AUT 112. Automotive Brake Systems Service and Diagnosis. 3 Credit Hours.**
Automotive Brake Systems Service and Diagnosis helps develop skills needed to inspect, service, and repair modern disc/drum brakes that are hydraulically controlled. Additional emphasis will focus on the operation and diagnosis of electronic braking systems. Students will identify Anti-Lock Brakes, Traction Control, Stability Control, the associated components, as well as diagnostic and repair procedures determined by the automobile manufacturer. (Credit is only allowed for either AUT 112 or AUT 169.)
Prerequisites: Concurrent or prior enrollment in AUT 101 with a minimum grade of "C" and Reading Proficiency

**AUT 114. Automotive Engine Repair and Diagnosis. 3 Credit Hours.**
Automotive Engine Repair and Diagnosis teaches the theory and application of the 4-cycle internal combustion engine. Students will learn to identify components, disassemble the engine, inspect components, measure to determine acceptable wear limits, and reassemble the engine. Additionally, students will learn how to diagnose engine conditions using common testing procedures. (Credit is only allowed for either AUT 114 or AUT 151.)
Prerequisites: Concurrent or prior enrollment in AUT 101 with a minimum grade of "C" and Reading Proficiency

**AUT 116. Automotive Powertrain Controls. 3 Credit Hours.**
Automotive Powertrain Controls explores the relationship between fuel delivery and engine control management. Students will learn how to identify and test a fuel delivery system. Students will identify different types of powertrain sensors and the appropriate testing procedures using various scan tools, Oscilloscope (DSO), and a Digital Multi-Meter (DMM). Additionally, students learn the relationship between On-Board Diagnostics Second Generation (OBDII) and vehicle networks.
Prerequisites: Concurrent or prior enrollment in AUT 101 with a minimum grade of "C" and Reading Proficiency

**AUT 200. Automotive Fieldwork Operations. 5 Credit Hours.**
Automotive Fieldwork Operations introduces students to three different roles within an automotive repair facility: service manager, parts manager, and technician. As a service manager, students will learn appointment scheduling, creating repair orders, communicating with customers, and the billing process. The parts manager is responsible for ensuring parts are ordered, billed, and returned correctly. The technician will be responsible for the practical application of diagnosing, testing, and repairing the vehicle. Students will rotate through each of these positions throughout the semester to provide practical real-world experience. (Credit is only allowed for either AUT 200 or AUT 281 and AUT 291.)
Prerequisites: AUT 107, AUT 110, AUT 112, AUT 114, AUT 116 with minimum grades of "C" and Reading Proficiency

**AUT 203. Automotive Manual Drivetrain. 3 Credit Hours.**
Automotive Manual Drivetrain covers the theory of operation, service procedures, and diagnosis of manual transmissions, transfer cases, constant velocity joints, differential/axles, and clutches. Students will disassemble these components to determine internal operation and service procedures. There will be a focus on the service and maintenance of the components. Additionally, students will gain the skills needed to diagnose and determine if these components can be repaired or replaced.
Prerequisites: AUT 101 with a minimum grade of "C" and Reading Proficiency

**AUT 210. Automotive Transmissions and Transaxles. 3 Credit Hours.**
Automotive Transmissions and Transaxles emphasizes the service, operation, diagnosis, and repair procedures of automatic transmissions and transaxles. Students will learn how to maintain and service multiple types of automatic transmissions. They will also disassemble an automatic transmission/transaxle to determine the internal operation and fluid flow. A complete breakdown of these units will allow students to inspect and test individual components and compare them against manufacturer specifications. There will also be a focus on diagnosing automatic transmission drivability concerns.
Prerequisites: AUT 101 with a minimum grade of "C" and Reading Proficiency

**AUT 212. Automotive Heating, Ventilation, and Air Conditioning. 3 Credit Hours.**
Automotive Heating, Ventilation, and Air Conditioning (HVAC) emphasize the principles, operation, and diagnosis of heating and air conditioning features found in automobiles. Students will learn how to recover, recharge, and recycle refrigerants used in these systems. Additionally, an in-depth look at the ventilation system will cover the operation and diagnosis of blend and mode doors. NOTE: students will be required to be certified in the recovering and recycling of refrigerants in accordance with EPA standards. Additional costs will be required. (Credit is only allowed for either AUT 212 or AUT 272.)
Prerequisites: AUT 110 with a minimum grade of "C" and Reading Proficiency

# Baking and Pastry (BAP)

## Course Descriptions

**BAP 101. Introduction to Baking Theory. 3 Credit Hours.**
Introduction to Baking Theory introduces the principles of food science and nutrition as they apply to baking and pastry arts. The Scientific Method is used to explore pastry ingredients and their function in product preparation and storage. Emphasis will be placed on formulation, ingredients, and sensory evaluations. (Credit is only allowed for either BAP 101 or HRM 515.)
Prerequisites: CUL 101 with a grade of "S", HTM 100 with a minimum grade of "C", and Reading Proficiency

**BAP 105. Breads, Rolls, and Bakeries. 3 Credit Hours.**
Breads, Rolls, and Bakeries introduces the techniques for preparation of assorted breads, quick breads, yeast-raised, laminated, and enriched doughs for the bakeshop as well as cookies, pies, and basic bakery staples. The use of baking equipment, scaling and shaping techniques, inventory control, baker's mathematics, and sanitation are covered. (Credit is only allowed for BAP 105, HRM 516, or HRM 122 and HRM 127.)
Prerequisites: BAP 101 with a minimum grade of "C" and Reading Proficiency

**BAP 110. Production Pastry Techniques. 3 Credit Hours.**
Production Pastry Techniques is designed to give the student working knowledge of traditional and contemporary methods of producing puff pastry, pate a choux, creams, custards, tarts, and mousses. Fundamentals of production and finishing techniques are introduced. (Credit is only allowed for BAP 110, HRM 517, or HRM 123 and HRM 126.)
Prerequisites: BAP 105 with a minimum grade of "C" and Reading Proficiency

**BAP 115. Cake Production and Decoration. 3 Credit Hours.**
Cake Production and Decoration exposes students to the proper procedures for producing traditional and contemporary cakes. Emphasis will be placed on mixing methods of batters, fillings, and icings. Skills taught include cake decoration, piping techniques, writing with chocolate, and proper use of a pastry bag. (Credit is only allowed for BAP 115, HRM 518, or HRM 219 and HRM 220.)
Prerequisites: BAP 110 with a minimum grade of "C" and Reading Proficiency

**BAP 150. Bakeshop Basics for Culinarians. 3 Credit Hours.**
Bakeshop Basics for Culinarians is an introduction to the fundamentals of baking and pastry utilized in the culinary industry. Students will learn the theories of baking science, mathematics, and production techniques, along with the principles and procedures for producing basic breads, custards, mousses, pastries, and bakeries. (Credit is allowed for only one of the following courses: BAP 150, HRM 122, or HRM 513.)
Prerequisites: CUL 101 with a grade of "S", HTM 100 with a minimum grade of "C", and Reading Proficiency

**BAP 160. Artistic Concepts in Pastry. 3 Credit Hours.**
Artistic Concepts in Pastry introduces students to the basic principles of drawing, design, digital photography, and artistic media utilized in the baking and pastry industry. Students will work with two-dimensional and three-dimensional formats to create a series of assigned projects.
Prerequisites: Reading Proficiency

**BAP 201. Artisan and Decorative Bread. 2 Credit Hours.**
Artisan and Decorative Bread will cover various styles of producing artisan and decorative bread. Instruction will include techniques of production utilizing various processes of fermentation. Elements of showpieces and decorative breads will be produced in class yielding attractive displays. Fundamentals of Baking Mathematics will play a key role in everyday production activities. (Credit is allowed for only one of the following courses: BAP 201, HRM 218, or HRM 520.)
Prerequisites: BAP 115 with a minimum grade of "C" and Reading Proficiency

**BAP 205. Ice Cream and Frozen Desserts. 2 Credit Hours.**
Ice Cream and Frozen Desserts introduces the multiple production techniques of frozen desserts. Students will be taught the fundamentals of balancing formulations, controlling texture, and developing flavor profiles, with an emphasis on the creation of classical and modern frozen desserts. Consumer marketing and evaluation will also be addressed during this class. (Credit is only allowed for either BAP 205 or HRM 512.)
Prerequisites: BAP 201 with a minimum grade of "C" and Reading Proficiency

**BAP 210. Chocolate Candies and Showpieces. 2 Credit Hours.**
Chocolate Candies and Showpieces teaches students the proper tempering techniques of chocolate. Hand-dipped and molded candies will be produced utilizing various methods. Variations of chocolates, fillings, manufacturing techniques, and decorations will be utilized in daily activities. Cocoa-based coloring and texturing mediums will be introduced and used to produce showpieces. (Credit is allowed for only one of the following courses: BAP 210, HRM 215, or HRM 521.)
Prerequisites: BAP 205 with a minimum grade of "C" and Reading Proficiency

**BAP 215. Plated Desserts. 2 Credit Hours.**
Plated Desserts focuses on the preparation and presentation of plated desserts. Contemporary versions of traditional desserts will be created utilizing several styles of plate presentation. Advanced flavor development and menu planning will be introduced. Students will simulate a la carte restaurant plating techniques to present finished desserts. (Credit is only allowed for either BAP 215 or HRM 514.)
Prerequisites: BAP 210 with a minimum grade of "C" and Reading Proficiency

**BAP 220. Sugar Candies and Showpieces. 2 Credit Hours.**
Sugar Candies and Showpieces introduces students to the process of artistic design, drawing, and creation of two and three-dimensional centerpieces utilizing sugar and pastillage. Students will also produce sugar-based candies utilizing various production methods. (Credit is allowed for only one of the following courses: BAP 220, HRM 216, or HRM 522.)
Prerequisites: BAP 215 with a minimum grade of "C" and Reading Proficiency

**BAP 260. Baking and Pastry Arts Capstone. 3 Credit Hours.**
Baking and Pastry Arts Capstone is a culminating course that focuses on the synthesis and application of the knowledge and skills necessary to successfully obtain the Certified Pastry Culinarian certification through the American Culinary Federation. This course will prepare students for this industry recognized examination.
Prerequisites: CUL 150, BAP 220, HTM 200, and HTM 210 with minimum grades of "C", and Reading Proficiency

# Behavioral Health Support (BHS)

## Course Descriptions

**BHS 200. Introduction to Behavioral Health Support. 3 Credit Hours.**
Introduction to Behavioral Health Support exposes students to the programs and services offered by community mental health centers and other behavioral health facilities. Students will be introduced to populations served, services provided, professional requirements, necessary skills, and various settings within behavioral health care. (Credit is only allowed for either BHS 101 or BHS 200.)
Prerequisites: Reading Proficiency

**BHS 205. Legal and Ethical Issues in Behavioral Health Support. 3 Credit Hours.**
Legal and Ethical Issues in Behavioral Health Support examines laws and regulations in Missouri related to behavioral health. Topics include ethical standards, personal and professional boundaries, and common legal matters facing individuals with mental health issues.
Prerequisites: Reading Proficiency

**BHS 210. Systems of Care. 3 Credit Hours.**
Systems of Care introduces students to different systems in which their clients are involved. Topics include the family, mental health, medical, other social service agencies, and schools. Students examine the community support specialist's role in helping the client navigate those systems.
Prerequisites: BHS 200, ENG 101, and PSY 200 with minimum grades of "C," successful admission into the Behavioral Health Support program, and Reading Proficiency

**BHS 215. Clinical Encounters I: Interviewing and Assessment. 3 Credit Hours.**
Clinical Encounters I: Interviewing and Assessment teaches interviewing skills and familiarize students with various screenings and assessments to use with clients. This class takes the student from assessment and individual treatment planning to service note completion.
Prerequisites: BHS 200, ENG 101, and PSY 200 with minimum grades of "C," successful admission into the Behavioral Health Support program, and Reading Proficiency

**BHS 220. Integrated Health. 3 Credit Hours.**
Integrated Health exposes students to challenges related to treatment of co-occurring conditions, signs, symptoms, and best practices for management of chronic health issues. Topics related to overall client wellness, social determinants of health, and advocating within the healthcare system are also covered. (Credit is only allowed for either BHS 220 or BHS 105.)
Prerequisites: BHS 200 with a minimum grade of "C" and Reading Proficiency

**BHS 225. Support for Youth and Families. 3 Credit Hours.**
Support for Youth and Families examines relationships, dynamics, and troubled patterns within the family unit. Family and youth interventions, preventions, and techniques are addressed and the Community Support role in family intervention is explored. Topics include issues at school, behavior control, substance use, emotional disturbance, and intellectual and developmental disorders.
Prerequisites: BHS 200 with a minimum grade of "C" and Reading Proficiency

**BHS 230. Clinical Encounters II: Crisis and Interventions. 3 Credit Hours.**
Clinical Encounters II: Crisis and Interventions will familiarize students with conflict resolution, crisis intervention, de-escalation of highly charged situations and Trauma Informed Care (TIC). Students will gain experience in recognizing, assessing, and responding to a variety of crisis situations including safety planning and documentation of crisis services. (Credit is only allowed for either BHS 230 or BHS 201.)
Prerequisites: BHS 215 with a minimum grade of "C" and Reading Proficiency

**BHS 250. Behavioral Health Support Practicum I. 3 Credit Hours.**
Behavioral Health Support Practicum I affords students the opportunity to gain practical experience and observation in a behavioral health setting, working with individuals, families, and communities. Students learn the structure and function of a mental health provider and integrate theory and practice. Individual behavioral health settings may have additional requirements. (Credit is only allowed for BHS 250 or BHS 202.)
Prerequisites: BHS 215 with minimum grades of "C", and Reading Proficiency
Corequisites: BHS 251

**BHS 251. Behavioral Health Support Seminar I. 1 Credit Hour.**
Behavioral Health Support Seminar I offers students continued applied experience of a behavioral health setting. Students engage in supervised group work to integrate and process materials, theories, techniques, and experiences as they apply to working in mental health.
Prerequisites: BHS 215 with a minimum grade of "C" and Reading Proficiency
Corequisites: BHS 250

**BHS 260. Evidence Based Treatment. 4 Credit Hours.**
Evidence Based Treatment (EBT) will expose students to commonly used behavioral health prevention and intervention approaches with an emphasis on skills training. Students will learn evidence-based practices (EBP) including Trauma Informed care (TIC), Motivational Interviewing (MI), and Cognitive Behavioral Therapy (CBT). (Credit is only allowed for BHS 260 or BHS 203.)
Prerequisites: BHS 230, BHS 250, and BHS 251 with minimum grades of "C" and Reading Proficiency

**BHS 270. Behavioral Health Support Practicum II. 3 Credit Hours.**
Behavioral Health Support Practicum II offers students continued applied experience in a behavioral health setting. Students engage in supervised interactions working with individuals, families, and communities experiencing a variety of behavioral health issues. Individual behavioral health settings may have additional requirements. (Credit is only allowed for either BHS 270 or BHS 204.)
Prerequisites: BHS 230, BHS 250, and BHS 251 with minimum grades of 'C' and Reading Proficiency
Corequisites: BHS 271

**BHS 271. Behavioral Health Support Seminar II. 1 Credit Hour.**
Behavioral Health Support Seminar II offers students continued applied experience in a behavioral health setting. Students engage in supervised group work to provide the opportunity to integrate and process materials, theories, techniques, and experiences as they apply to working in mental health.
Prerequisites: BHS 230, BHS 250, and BHS 251 with minimum grades of "C" and Reading Proficiency
Corequisites: BHS 270

# Biology (BIO)

## Course Descriptions

**BIO 103. Anatomy for Funeral Service. 3 Credit Hours.**
Anatomy for Funeral Service is a fundamental course on human anatomy. Emphasis will be on the integumentary, skeletal, muscular, nervous, cardiovascular, digestive, urinary, respiratory, and reproductive systems. This course is for students in the Funeral Service Education program and cannot be substituted for BIO 207, BIO 208, or BIO 215.
Prerequisites: BIO 111 with a minimum grade of "C" and Reading Proficiency

**BIO 106. Human Heredity (MOTR LIFS 100LG). 4 Credit Hours.**
Human Heredity will introduce students to basic concepts in human inheritance. Areas of emphasis will include patterns of inheritance, population genetics, the genetics of immunity and cancer, genetic engineering, gene therapy, and reproductive technologies.
Prerequisites: Reading Proficiency

**BIO 109. Human Biology (MOTR LIFS 100). 3 Credit Hours.**
Human Biology is an introduction to basic human structure and function, as well as the human body's interaction with its surroundings, including cell theory, genetics, systems biology, ecology, and evolution.
Prerequisites: Reading Proficiency or concurrent enrollment in RDG 079

**BIO 110. General Zoology (MOTR BIOL 100LZ). 4 Credit Hours.**
General Zoology provides a survey of the animal kingdom with emphasis on comparative anatomy, physiology, ecology, and evolution of the major invertebrate and vertebrate groups.
Prerequisites: Reading Proficiency

**BIO 111. Introductory Biology (MOTR BIOL 100L). 4 Credit Hours.**
Introductory Biology provides a consideration of the principles of biology, with emphasis on the molecular approach to the structure and function of living organisms. This course is intended for liberal arts students and majors in physical and occupational therapy, nursing, and health science programs.
Prerequisites: Reading Proficiency or concurrent enrollment in RDG 079

**BIO 113. Modern Aspects of Biology (MOTR BIOL 100). 3 Credit Hours.**
Modern Aspects of Biology provides a consideration of the principles of biology as they relate to socially relevant issues in nutrition, reproduction, sexuality, heredity, and disease.
Prerequisites: Reading Proficiency

**BIO 117. Conservation and Ecology (MOTR BIOL 100EC). 3 Credit Hours.**
Conservation and Ecology focuses on the environment and the effects that humans have on the Earth. Interrelationships of living things to their environment and to each other are discussed with focus on the impact of humans on the environment, use and abuse of renewable and non-renewable natural resources, and conservation and restoration efforts.
Prerequisites: Reading Proficiency

**BIO 119. Field Botany. 4 Credit Hours.**
Field Botany focuses on plant identification of native and naturalized grasses, forbs, and woody plants, with emphasis on flowering plants. The comparative morphology, systematics, evolution, and ecological factors that affect plant diversity and distribution, and the impact of humans on regional ecosystems are also explored. Off-campus field trips are required.
Prerequisites: Reading Proficiency

**BIO 120. Field Zoology. 3 Credit Hours.**
Field Zoology introduces students to the natural history of animals within a wide variety of habitats. Topics will include the conservation, and history of wildlife populations in the Midwest, including insects and other invertebrates, fish, amphibians, reptiles, birds, and mammals. Techniques for collection, preservation, and identification will be covered. Off-campus field trips are required.
Prerequisites: Reading Proficiency

**BIO 124. General Botany I (MOTR BIOL 100LB). 4 Credit Hours.**
General Botany I will introduce students to the biological aspects of plant life, including cell structure and function, anatomy, morphology, physiology, genetics, taxonomy, and the environmental factors that affect plant growth. The laboratory reinforces the topics and concepts covered in the lecture.
Prerequisites: Reading Proficiency

**BIO 125. Principles of Nutrition (MOTR LIFS 100N). 3 Credit Hours.**
Principles of Nutrition is an introduction to the science of nutrition. Topics include the science of digestion and absorption, utilization of nutrients, metabolism and influencing factors, functions and sources of food macro- and micro-nutrients, and phytochemicals, food and nutrition intake implications on exercise ability, physical and mental well-being, and environmental sustainability.
Prerequisites: Reading Proficiency

**BIO 140. Principles of Biology I (MOTR BIOL 150L). 5 Credit Hours.**
Principles of Biology I presents an introduction to scientific methodology and biological principles applied to the molecular level of the structure and function of living organisms. This course is intended for pre-medicine, pre-dentistry, pharmacy, biology, and other science majors.
Prerequisites: MTH 140 or MTH 140S or MTH 160S with a minimum grade of "C" or placement into MTH 160, and Reading Proficiency

**BIO 141. Principles of Biology II. 4 Credit Hours.**
Principles of Biology II presents an introduction to scientific methodology and biological principles applied to the organism and supraorganism levels of biology. Topics covered include: population biology, evolution, and a survey of the major Domains and Kingdoms of living organisms. This course is intended for pre-medicine, pre-dentistry, biology, and other science majors.
Prerequisites: BIO 140 with a minimum grade of "C" and Reading Proficiency

**BIO 151. Biology of Human Health and Disease (MOTR LIFS 100D). 3 Credit Hours.**
Biology of Human Health and Disease will explore the evolution of microbes and human disease and the influences that regular exercise, diet, and genetic factors have on everyday good health. The course will also explore mechanisms, manifestations, and prevention of common diseases, such as heart disease and cancer.
Prerequisites: Reading Proficiency

**BIO 154. The Biology of Human Sex (MOTR LIFS 100R). 3 Credit Hours.**
The Biology of Human Sex covers male and female reproductive systems, sexual gender, sexually transmitted infections, contraception, assisted reproductive techniques and the development of the fetus. This course will also cover typical and atypical behaviors of sexuality.
Prerequisites: Reading Proficiency

**BIO 157. Good Laboratory Practices, Compliance, and Bioinformatic Principles. 3 Credit Hours.**
Good Laboratory Practices, Compliance, and Bioinformatic Principles provides a general overview of the Food and Drug Administration (FDA) regulations as they pertian to the biotechnology field. Knowledge of current Good Laboratory Practices (cGLP) and current Good Manufacturing Practices (cGMP) is needed to work in biotechnology manufacturing and preclinical research laboratories. The course will emphasize practices of cGLP and cGMP that pertain to the biopharmaceutical industry as well as current standard operating procedures in Compliance, Bioinformatics, and Electronic Notebook usage.
Prerequisites: BIO 104 or BIO 111 or BIO 124 or BIO 140 or BIO 207 or BIO 225 with a minimum grade of "C", and Reading Proficiency
Recommended Preparation: Basic computer skills

**BIO 177. Food Science. 3 Credit Hours.**
Food Science introduces the fundamental biological, chemical, and physical scientific principles associated with the study of foods. Topics include food composition and nutrition, food additives, regulations, food safety, toxicology, food preservation, packaging, food biotechnology, product development, and sensory evaluation.
Prerequisites: Reading Proficiency

**BIO 178. Food Science Laboratory. 1 Credit Hour.**
Food Science Laboratory provides a hands-on experience with equipment and technology for the culinary and dietetic student. The laboratory course will apply concepts learned from a Food Science lecture to a culinary or dietetic based lab experiences.
Prerequisites: Concurrent or prior enrollment in BIO 177 with a minimum grade of "C", and Reading Proficiency

**BIO 180. Practical Molecular Biology Laboratory Techniques. 1 Credit Hour.**
Practical Molecular Biology Laboratory Techniques is designed to provide an accelerated pathway to develop the skill sets necessary for students with a natural science degree to succeed in the Certificate of Specialization Biotechnology Program. Students will learn traditional molecular biology techniques including but not limited to micropippeting, gel electrophoresis, polymerase chain reaction, and spectroscopic applications.
Prerequisites: Permission from the Program Coordinator and Reading Proficiency

**BIO 203. General Microbiology I. 4 Credit Hours.**
General Microbiology I will introduce students to the study of microorganisms, including bacteria, viruses, and fungi with emphasis on morphology, culture techniques, and biochemical activity. The course will focus on human diseases specifically pathogens, infections, and resistance. The laboratory experience will supplement lecture concepts and provide students with skills in microscopy, aseptic technique, and identification of microorganisms.
Prerequisites: BIO 111 or BIO 140 with a minimum grade of "C", or college-level course equivalent, and Reading Proficiency

**BIO 207. Anatomy and Physiology I (MOTR LIFS 150LAP). 4 Credit Hours.**
Anatomy and Physiology I is the study of inter-relationships between the structure and the function at gross and microscopic levels of the organization of the living body. This course uses body systems to emphasize the anatomical terminology, cellular, and tissue level of organization. Anatomy and Physiology I includes the integumentary, skeletal, muscular, nervous, special senses, and endocrine system. The laboratory component reinforces topics and concepts covered in lectures.
Prerequisites: BIO 111 or BIO 140 or CHM 101 with a minimum grade of "C", or college-level course equivalent, and Reading Proficiency

**BIO 208. Anatomy and Physiology II. 4 Credit Hours.**
Anatomy and Physiology II is a continuation of Anatomy and Physiology I, emphasizing the integrative functions of the cardiovascular (blood, blood vessels, and heart), lymphatic, digestive, respiratory, urinary, and reproductive systems. Additional focus is on nutrition, metabolism, buffer systems, fluids and electrolytes, and acid-base balance.
Prerequisites: BIO 207 with a minimum grade of "C" and Reading Proficiency

**BIO 215. Human Body Systems. 5 Credit Hours.**
Human Body Systems is a study of the structure and function of the normal, healthy human body. Emphasis will be on the organ systems as they relate to health information management and medical coding and billing. Additional focus will be on the use of anatomical language in the medical and scientific field, pharmacology and its effects on the human body, and diseases/conditions as it relates to the human body. This course is specifically for students in Health Information Management programs and cannot be substituted for BIO 207 or BIO 208.
Prerequisites: Reading Proficiency

**BIO 225. Genetics. 3 Credit Hours.**
Genetics explores the fundamental principles of heredity in prokaryotic and eukaryotic organisms as well as the methods of genetic analyses at the molecular level. Topics include transmission genetics, molecular genetics, evolutionary genetics, and advances in biotechnology and genomics. (Credit is only allowed for either BIO 225 or BIO 559.)
Prerequisites: BIO 140 with a minimum grade of "C" and Reading Proficiency

**BIO 231. Cell Biology. 3 Credit Hours.**
Cell Biology is a comprehensive course that integrates cellular structure and function at the molecular level. Emphasis will be on extracellular and intracellular signaling and cellular response to those signals. Other mechanisms of focus will be transcription, cytoskeleton, cell division, protein biology, organelles, cell trafficking, and signal transduction.
Prerequisites: BIO 140 with a minimum grade of "C" and Reading Proficiency

**BIO 232. Cell Biology Laboratory. 1 Credit Hour.**
Cell Biology Laboratory provides a hands-on experience with equipment and technology for molecular and cell biology research. The laboratory course will apply concepts learned from an Introduction to Cell Biology lecture to molecular based research project(s).
Prerequisites: BIO 140 with a minimum grade of "C" and Reading Proficiency
Corequisites: BIO 231

**BIO 235. Genetics Laboratory. 2 Credit Hours.**
Genetics Laboratory provides a hands-on experience with equipment and technology for molecular and genetic research. The laboratory course will apply concepts learned from a Genetics lecture to research projects based on molecular and genetic technologies.
Prerequisites: BIO 140 with a minimum grade of "C", concurrent or prior enrollment in BIO 225 with a minimum grade of "C", and Reading Proficiency

**BIO 240. Environmental Science. 3 Credit Hours.**
Environmental Science integrates biological, chemical, and physical processes to examine changes in ecosystems and the impact of humans on the environment. Emphasis of study includes ecology, biodiversity, pollution, climate change, and sustainability. Analysis of environmental issues, policy, and strategies to reduce impacts to the environment will also be investigated.
Prerequisites: Reading Proficiency

# Biomedical Engineering Tech (BE)

## Course Descriptions

**BE 153. Workplace Learning: Biomedical Electronics Technology. 4-6 Credit Hours.**
Workplace Learning: Biomedical Electronics Technology provides the student the opportunity to apply theory and skills learned in the classroom, learn new skills, and explore career possibilities while supervised by a professional in the field and a faculty member. Students will observe and participate in the functions of the industry to enhance their preparation for entering the field. Minimum 50 hours per credit hour in the workplace throughout the term.
Prerequisites: BE 254 with a minimum grade of "C" and Reading Proficiency

**BE 254. Biomedical Applications. 5 Credit Hours.**
Biomedical Applications develops competencies, including maintenance, troubleshooting, and repair, with such basic hospital equipment as transducers, amplifiers, processors, display modules, and respiratory and radiography instruments.
Prerequisites: EE 132 with a minimum grade of "C" and Reading Proficiency

# Biotechnology (BTX)

## Course Descriptions

**BTX 100. Introduction to Life Science Laboratory Skills. 3 Credit Hours.**
Introduction to Life Science Laboratory Skills is part of the Certificate of Specialization in Life Science Laboratory Assistant program. Students practice basic lab skills in a research laboratory setting. Pipetting, solution preparation, media preparation, dilutions, sterile technique, separation methods, lab math, quality control, documentation, and other appropriate skills are taught with an emphasis on standard lab instrumentation, calibration or verification, and maintenance.
Prerequisites: Placement into MTH 140 or higher or completion of MTH 140S with a minimum grade of "C", and Reading Proficiency

**BTX 104. Basic Laboratory Methods for Biotechnology. 3 Credit Hours.**
Basic Laboratory Methods for Biotechnology introduces laboratory skills necessary to enter the field. Topics and techniques include safety, sterile technique, laboratory math, quality systems, documentation, collection of data, metrology, filtration, solution preparation, molecular biology techniques, and other laboratory techniques.
Prerequisites: Placement into MTH 140 or higher or completion of MTH 140S with a minimum grade of "C", and Reading Proficiency

**BTX 152. Quantitative Methods in Biotechnology. 2 Credit Hours.**
Quantitative Methods in Biotechnology introduces students to common calculations encountered in a cellular-molecular research setting.
Prerequisites: Placement into MTH 140 or completion of MTH 140S with a minimum grade of "C" or better, CHM 101 with a minimum grade of "C" or one year of high school chemistry, and Reading Proficiency

**BTX 218. Microbiology for Biotechnology. 4 Credit Hours.**
Microbiology for Biotechnology provides a detailed exposure to structure, metabolism, genetics, and growth characteristics of microorganisms and viruses, as well as the role they play in disease, ecological, and industrial applications. The structure and function of the human immune system are also be covered.
Prerequisites: BIO 140 and CHM 105 with minimum grades of "C" and Reading Proficiency

**BTX 219. Biotechnology I. 5 Credit Hours.**
Biotechnology I introduces basic biotechnology skills in preparation for Biotechnology II. Topics and techniques may include safety, current Good Manufacturing Practices (cGMP), agarose gel electrophoresis, plasmid construction, polyacrylamide gel electrophoresis (PAGE), polymerase chain reaction (PCR), cell culture, rapid plant genotyping, and other molecular research techniques.
Prerequisites: BTX 104 or BIO 104 with a minimum grade of "C", BIO 140 with a minimum grade of "C", and Reading Proficiency

**BTX 220. Biotechnology II. 5 Credit Hours.**
Biotechnology II is a project-oriented course applying the fundamental DNA and protein manipulation techniques that are commonly used in biotechnology/bioengineering research laboratories in academia and industry.
Prerequisites: BTX 219 or BIO 219 with a minimum grade of "C" and Reading Proficiency

**BTX 221. Workplace Learning: Biotechnology. 3-6 Credit Hours.**
Workplace Learning: Biotechnology provides the student the opportunity to apply theory and skills learned in the classroom, learn new skills, and explore career possibilities while supervised by a professional in the field and a faculty member. Students observe and participate in the functions of the industry to enhance their preparation for entering the field. Minimum of 50 hours per credit hour in the workplace throughout the term.
Prerequisites: Concurrent or prior enrollment in BTX 220 or BIO 220 with a minimum grade of "C" and Reading Proficiency

**BTX 226. Advanced Topics in Biotechnology. 3 Credit Hours.**
Advanced Topics in Biotechnology focuses on current techniques used in biotechnology research and industry. Topics can include techniques from biomedical, pharmaceutical, agricultural, environmental, microbiological, bioprocessing, biocomputing, and/or bioethical aspects of biotechnology.
Prerequisites: Concurrent or prior enrollment in BTX 219 or BIO 219 with a minimum grade of "C" and Reading Proficiency

**BTX 228. Research and Presentation Skills for the Life Sciences. 2 Credit Hours.**
Research and Presentation Skills for the Life Sciences provides hands-on training, organizing, and presenting scientific data in document, poster, and oral formats. Students write cover letters and resumes. Students write written reports and create posters summarizing data generated in BIO 220, BTX 220, or from workplace learning. This data is presented in poster format with corresponding oral presentations to various audiences. Mock employment interviews are also be conducted.
Prerequisites: Entry into this course must be approved by the program coordinator, and Reading Proficiency
Corequisites: BTX 220

# Building Inspection Technology (BIC)

## Course Descriptions

**BIC 103. Building Codes and Ordinances. 3 Credit Hours.**
Building Codes and Ordinances offers a detailed study of national, state, and local ordinances geared to public safety, land use controls, and building codes. It will include a detailed summary of use philosophy, development, and ethical use of the latest edition of industry standard building codes.
Prerequisites: Reading Proficiency

**BIC 203. Plan Review I (Non-Structural). 3 Credit Hours.**
Plan Review I (Non-Structural) provides the student with an understanding of building plans for residential, commercial, industrial, and institutional buildings as related to the requirements of various codes and the zoning ordinances. Solutions to problems will be taught through the study of specific situations, employing an authentic set of plans. The student is taught to identify the problems in the plan and then to solve them by the correct application of plan review.
Prerequisites: BIC 103 with a minimum grade of "C" and Reading Proficiency

**BIC 204. Plan Review II (Structural). 3 Credit Hours.**
Plan Review II (Structural) provides the student with an understanding of building plans with emphasis on structural elements of building design. The student will review and calculate loads and sizing of structural elements of a building, including footings, foundations, beams, columns, walls, roofs, and floors.
Prerequisites: BIC 203 with a minimum grade of "C" and Reading Proficiency

# Business Administration (BUS)

## Course Descriptions

**BUS 101. Small Business Management. 3 Credit Hours.**
A comprehensive survey course which deals with the theoretical and practical aspects of starting and operating a small business. Each major function of business (accounting, production, marketing) is discussed with particular reference to small business. Students taking this course are normally not encouraged to enroll subsequently in BUS 104 due to similarity of course content.
Prerequisites: Reading Proficiency

**BUS 103. Business Mathematics. 3 Credit Hours.**
This course includes a review of basic arithmetic fractions, decimals, ratios, non-decimal numbering systems, and graphical representation of numbers. It also covers fundamental problems involving interest, mark-ups, commissions, payroll, taxes, depreciation, consumer credit, insurance and security transactions. Students will analyze simple financial statements, discounts, volume/profit relationships, and banking records.
Prerequisites: Reading Proficiency

**BUS 104. Introduction to Business Administration. 3 Credit Hours.**
Introduction to Business Administration is a survey course designed to give the student general knowledge of the modern business world and the environments within which it exists. Students are introduced to functional areas that work together to create products and services.
Prerequisites: Reading Proficiency

**BUS 201. Elementary Business Statistics. 3 Credit Hours.**
Elementary Business Statistics provides an introduction to the basic principles and methods of statistical measurement and statistical inference. Descriptive statistical concepts include data organization and presentation, measures of location, dispersion, and shape, and probability theory and distributions. Applications of statistical inference include random sampling techniques, sampling distributions, confidence interval estimation, hypothesis testing for one and two populations, correlation, and regression analysis.
Prerequisites: MTH 160 with a minimum grade of "C" or MTH 185 or higher with a minimum grade of "C" and Reading Proficiency

**BUS 250. Workplace Learning: Business and Economics. 1-3 Credit Hours.**
This experiential course provides the student the opportunity to apply theory and skills learned in the classroom, learn new skills, and explore career possibilities while supervised by a professional in the field and a faculty member. Students will observe and participate in the functions of the business to enhance their preparation for entering the field. Minimum 50 hours per credit hour in the workplace throughout the term.
Prerequisites: Department approval and Reading Proficiency

# Business Law (BLW)

## Course Descriptions

**BLW 101. Business Law. 3 Credit Hours.**
Business Law is an introduction to the American legal system and various areas of law related to business, including: constitutional law, ethics, alternative dispute resolution, contracts, torts, product liability, intellectual property, and criminal law.
Prerequisites: Reading Proficiency

**BLW 201. Legal Environment of Business. 3 Credit Hours.**
Legal Environment of Business is a survey course that will provide students with a broad, general understanding of legal issues affecting the operation of a business. It covers an introduction to law and the judicial system, the U.S. Constitution, alternative dispute resolution, ethics, business organizations, contracts, torts, property, agency, administrative law, antitrust law, employment law, international law, and other topics related to operating a business.
Prerequisites: ENG 101 with a minimum grade of "C" and Reading Proficiency

# Certified Medical Assisting (CMA)

## Course Descriptions

**CMA 101. Introduction to Medical Assisting I. 4 Credit Hours.**
Introduction to Medical Assisting I introduces students to the foundational knowledge and skills necessary for a career in medical assisting. Topics include legal and ethical considerations, communication skills, patient care fundamentals, medical terminology, anatomy, and physiology. This course combines theoretical learning with clinical and simulation experiences to develop competency in patient interactions and procedures.
Prerequisites: Enrollment in the Medical Assisting Program and Reading Proficiency

**CMA 102. Introduction to Medical Assisting II. 3 Credit Hours.**
Introduction to Medical Assisting II focuses on clinical skills required for medical assistants, including infection control, vital signs assessment, medical history documentation, and assisting with physical examinations and minor procedures. Students practice in a simulated lab environment and are introduced to direct patient care techniques.
Prerequisites: CMA 101 with a minimum grade of "C" and Reading Proficiency
Corequisites: CMA 103

**CMA 103. Special Topics in Medical Assisting. 2 Credit Hours.**
Special Topics in Medical Assisting provides an in-depth look at patient-centered care, cultural competency, professionalism, and workplace readiness. This course integrates real-world scenarios to enhance students' problem-solving and critical-thinking skills in addition to clinical and internship/externship opportunities.
Prerequisites: CMA 101 with a minimum grade of "C" and Reading Proficiency
Corequisites: CMA 102

# Chemistry (CHM)

## Course Descriptions

**CHM 101. Fundamentals of Chemistry I (MOTR CHEM 100L). 5 Credit Hours.**
Fundamentals of Chemistry I presents the basic concepts and symbols of chemistry with applications to everyday life. The course is designed for students desiring an introduction to chemistry and is suitable for allied health students. Laboratory work presents opportunities to use laboratory equipment, emphasizes observations and measurements, and provides elementary quantitative and qualitative analysis.
Prerequisites: MTH 109 or higher with a minimum grade of "C" or placement into a higher math class, and Reading Proficiency or concurrent enrollment in RDG 079

**CHM 102. Fundamentals of Chemistry II. 4 Credit Hours.**
This course presents the fundamental concepts of organic chemistry and biochemistry. It is suited for allied health students and for students not planning to major in chemistry. Topics include basic structure and reactions of organic molecules and a survey of carbohydrates, lipids, amino acids and proteins, with an introduction to metabolic pathways. Laboratory work emphasizes observations. Additional lab hours required.
Prerequisites: CHM 101 or CHM 105 with minimum grades of "C" and Reading Proficiency

**CHM 105. General Chemistry I (MOTR CHEM 150L). 5 Credit Hours.**
General Chemistry I is designed for science-related majors and emphasizes the fundamental principles of chemistry. Topics include measurement, physical and chemical processes, nomenclature, atomic structure, quantum theory, stoichiometry, molecular structure, bonding theory, physical properties of gases, thermochemistry, and properties of solutions. Upon completion of the course, students should be able to demonstrate an understanding of the fundamental chemical laws and concepts and will obtain prerequisite chemical knowledge needed for advancement to General Chemistry II.
Prerequisites: MTH 140 (or MTH 140S or at least one and a half years of high school algebra) and CHM 101 with a minimum grade of "C" or one year of high school chemistry, and Reading Proficiency

**CHM 106. General Chemistry II. 5 Credit Hours.**
This course is a continuation of General Chemistry I. Topics include quantitative analysis of kinetics, equilibrium, thermodynamics, electrochemistry, nuclear chemistry, and some descriptive chemistry and organic chemistry. It includes laboratory work involving qualitative and quantitative analysis. Completion of the course provides students with an understanding of general chemical laws and concepts, and prerequisite knowledge needed for higher level chemistry courses. Additional lab hours required.
Prerequisites: CHM 105 and (MTH 160 or MTH 160A or MTH 160B or MTH 160C or MTH 160S) with minimum grades of "C" or test in MTH 170 or higher on the Math placement test and Reading Proficiency

**CHM 109. Chemistry and the Environment (MOTR CHEM 100L). 4 Credit Hours.**
Chemistry and the Environment presents the concepts and symbolism of chemistry with an emphasis on the natural environment and applications to everyday life. This course is suited for students who have a general interest in the study of chemistry in a course containing a laboratory component and is not intended as a substitute for Fundamentals of Chemistry I (CHM 101).
Prerequisites: Completion of a 100-level MTH course with a minimum grade of "C" or placement into MTH 140 or higher, and Reading Proficiency

**CHM 123. Fundamentals of Forensic Chemistry (MOTR CHEM 100). 3 Credit Hours.**
Fundamentals of Forensic Chemistry is a non-laboratory course that introduces fundamental chemistry concepts with applications in gathering and evaluating evidence for criminal investigations. Topics covered include atomic structure, formation of compounds, physical and chemical properties of compounds, properties of solutions, drug chemistry and poisons, arson and explosives, trace evidence analysis, estimating time of death, and biological chemistry.
Prerequisites: Reading Proficiency

**CHM 206. Organic Chemistry I. 3 Credit Hours.**
Organic Chemistry I is an introduction to the structure, properties, and mechanisms of reactions of organic compounds. Topics covered include nomenclature, bonding, stereochemistry, and reactivity, with emphasis on the chemistry of alkanes, alkenes, alkynes, and alkyl halides. Upon completion of this course, students should be able to demonstrate a fundamental knowledge of organic compounds and their reactivity and obtain prerequisite knowledge needed for advancement to Organic Chemistry II (CHM 207).
Prerequisites: CHM 106 with a minimum grade of "C" and Reading Proficiency

**CHM 207. Organic Chemistry II. 3 Credit Hours.**
Organic Chemistry II is a continuation of Organic Chemistry I (CHM 206). This course will cover the nomenclature and chemistry of dienes, conjugated systems, aromatic compounds, alcohols, epoxides, ethers, aldehydes and ketones, carboxylic acids and derivatives, and amines. Writing and predicting organic reaction mechanisms will be emphasized, as well as the structure identification of functional groups and organic compounds.
Prerequisites: CHM 206 with a minimum grade of "C" and Reading Proficiency

**CHM 210. Organic Chemistry Lab I. 2 Credit Hours.**
This course is an introduction to the laboratory work in organic chemistry. The emphasis of the course is on generally-employed laboratory techniques for purification and characterization of organic compounds and an introduction to laboratory instrumentation. Additional lab hours required.
Prerequisites: Concurrent or prior enrollment of CHM 206 with a minimum grade of "C" and Reading Proficiency

**CHM 211. Organic Chemistry Lab II. 2 Credit Hours.**
This course is a continuation of CHM 210 Organic Chemistry Lab I. The emphasis of the course is on synthesis of organic compounds, including multi-step syntheses, and on characterization and analysis of organic compounds and exploration of instrumentation. Additional lab hours required.
Prerequisites: Concurrent or prior enrollment in CHM 207 with a minimum grade of "C" and CHM 210 with a minimum grade of "C" and Reading Proficiency

**CHM 220. Quantitative Analysis. 4 Credit Hours.**
Quantitative Analysis introduces students to the quantitative analytical techniques of gravimetric, volumetric, and spectrophotometric methods for the analysis of chemical samples. Topics covered include acid-base and oxidation-reduction equilibria and titrations, solubility and chelation, spectrophotometry, and chromatography. The class explores instrumentation, calculations, and statistics involved in these analytical methods. Theories underlying sampling and proper use of quantitative laboratory equipment are discussed, as well. Evaluation and quantification of unknown samples in the laboratory setting is emphasized.
Prerequisites: CHM 106 with a minimum grade of "C" and MTH 160 or MTH 160S with a minimum grade of "C" or placement into MTH 170 or higher, and Reading Proficiency

# Child and Family Development (CFD)

## Course Descriptions

**CFD 101. Foundations of Child and Family Development. 3 Credit Hours.**
Foundations of Child and Family Development introduces an overview of early childhood including curricula, history, trends, programs, and career opportunities. Quality characteristics of the environment and the role of the professional are examined. Within this class, observation, documentation, formal and informal assessment tools, and strategies for use with young children, ages birth through age 8, will be explored.
Prerequisites: Reading Proficiency

**CFD 102. Child Growth and Development. 3 Credit Hours.**
Child Growth and Development is a study of child development, including major theories, developmental domain milestones, and other factors that influence the typical development of children from conception through age 8. Development is explored in the context of multiple influences such as family, culture, and society. 9 hours of child observation is required for this course.
Prerequisites: Reading Proficiency

**CFD 103. Child Nutrition, Health, and Safety. 3 Credit Hours.**
Child Nutrition, Health, and Safety focuses on health, nutrition, and safety issues in early childhood. Topics include nutritional education and practices, menu planning, indoor and outdoor safety, childhood diseases and injuries, and appropriate health, hygiene, and safety practices for children as well as the adults who care for them.
Prerequisites: Reading Proficiency

**CFD 104. Creative Experiences in Early Childhood. 3 Credit Hours.**
Creative Experiences in Early Childhood introduces the expressive philosophy of creativity and explores music, movement, and visual arts as related to the interests and development of young children. Child development candidates will plan for integrating activities in diverse early childhood settings, addressing all developmental domains.
Prerequisites: Reading Proficiency

**CFD 105. Professional Development Seminar I. 1 Credit Hour.**
Professional Development Seminar I provides information and hands-on experiences with observation, documentation, and formal and informal assessment tools and strategies for use with young children, ages birth through age eight. Legal and ethical issues related to data collection, research, and assessment will also be included in the course.
Prerequisites: CFD 101 and CFD 102 with minimum grades of "C", eligibility for placement in ENG 101, and Reading Proficiency

**CFD 106. Cognitive Development: Language and Literacy in Early Childhood. 3 Credit Hours.**
Cognitive Development: Language and Literacy in Early Childhood, students examine quality literature appropriate for young children, from infancy through age eight. Appropriate literacy experiences of reading, writing, and language learning are discussed and practiced. Students also examine methods of presentation and the creation of literacy-based environments.
Prerequisites: CFD 101 and CFD 102 with minimum grades of "C", and Reading Proficiency

**CFD 107. Family/Community Support and Engagement. 3 Credit Hours.**
Family/Community Support and Engagement students will examine strategies and develop skills in effective communication with individual parents and families. Topics include reflections on the contemporary American family, developing reciprocal partnerships, utilizing community resources, parent involvement, meetings and conferences, and home visiting.
Prerequisites: Reading Proficiency

**CFD 108. Principles of Curriculum Design: Infants, Toddlers, and Two-Year-Olds. 3 Credit Hours.**
Principles of Curriculum Design: Infants, Toddlers, and Two-Year-Olds is the study of infants, toddlers and two-year-olds and includes current theories of early child development. It also includes a variety of research-based caregiving practices and teaching strategies for both parents and teachers, with a focus on curriculum design.
Prerequisites: CFD 101 and CFD 102 with minimum grades of "C", and Reading Proficiency

**CFD 109. Supervised Student Teaching Practicum: Infants, Toddlers, and Two-Year-Olds. 3 Credit Hours.**
Supervised Student Teaching Practicum: Infants, Toddlers, and Two-Year-Olds is a class where students will actively participate in the daily operation of a quality early care and education infant, toddler, and two-year-old setting for a total of 150 hours. A qualified supervisor will guide students through selecting, planning, and organizing curriculum using developmentally appropriate practices. Students will design and implement learning experiences for infants, toddlers, and two-year-olds.
Prerequisites: CFD 101, CFD 102, CFD 104, and CFD 108 with minimum grades of "C" and Reading Proficiency

**CFD 110. Social Emotional Supports for Infants and Toddlers. 3 Credit Hours.**
Social Emotional Supports for Infants and Toddlers will examine the essential components of building healthy relationships with infants and their families. Techniques and strategies to support healthy attachment and achievement of emotional milestones will be the focus of this course. Topics will include responsive caregiving, individualization, temperament, and the effect of stress on the developing brain.
Prerequisites: CFD 101 and CFD 102 with minimum grades of "C", and Reading Proficiency

**CFD 111. Introduction to Children with Special Needs. 3 Credit Hours.**
Introduction to Children with Special Needs will cover the characteristics of individuals with special needs and abilities with a focus on early intervention and support services. This course will include an overview of laws and theories that support unique individuals. This course provides an introduction to screening, assessment, working with families, and the implementation of individualized programming.
Prerequisites: Reading Proficiency

**CFD 201. Social and Emotional Development: Guidance and Discipline. 3 Credit Hours.**
Social and Emotional Development: Guidance and Discipline is a study of child guidance that includes research-based normative development, theory, and strategies for guiding children's behavior at home and in diverse settings. Observation and field study of young children from infancy through age eight will be the foundation for this course.
Prerequisites: Reading Proficiency

**CFD 202. Cognitive Development: Math, Science, and Engineering for Young Children. 3 Credit Hours.**
Cognitive Development: Math, Science, and Engineering for Young Children students will design and implement developmentally appropriate experiences that enhance Math, Science, and Engineering concepts for children between birth and age eight. Various cognitive theories and stages of development are integrated throughout the course. Topics include implementation strategies, sensory awareness, problem solving, thinking and questioning skills, exploration, appropriate use of technology, and discovery learning.
Prerequisites: Concurrent or prior enrollment in CFD 102 with a minimum grade of "C" and Reading Proficiency

**CFD 203. Professional Development Seminar II. 1 Credit Hour.**
Professional Development Seminar II will provide a seminar experience in which students can develop their early childhood professional dispositions and practices. Learning to be an advocate for children and their families will be part of the class process, as will continued study of the NAEYC Code of Ethical Conduct and Standards.
Prerequisites: CFD 105 with a minimum grade of "C" and Reading Proficiency

**CFD 204. Principles of Curriculum Design: Preschool. 3 Credit Hours.**
Principles of Curriculum Design: Preschool focuses on designing a curriculum that meets the diverse needs of each child in an early childhood program. Topics include establishing physical environments, facilitating play and learning, developing and facilitating curriculum based upon each child's needs and interests, planning for classroom management of children, classroom management styles, and transitions.
Prerequisites: CFD 101 and CFD 102 with minimum grades of a "C", and Reading Proficiency

**CFD 205. Supervised Student Teaching Practicum: Preschool. 3 Credit Hours.**
Supervised Student Teaching Practicum: Preschool is a course where students will demonstrate the ability to execute all teaching and caregiving aspects of the assigned early childhood preschool environment. Lesson planning and implementation, and developmentally appropriate guidance methods are included in this course.
Prerequisites: CFD 101, CFD 102, CFD 104, and CFD 204 with minimum grades of "C", and Reading Proficiency

**CFD 206. Children With Special Abilities and Needs. 3 Credit Hours.**
Children With Special Abilities and Needs presents information about children with special needs with a focus on early intervention and the role of the teacher. Topics include screening, assessment, working with families, universal design, and developing and implementing individualized program planning.
Prerequisites: CFD 101, CFD 102, CFD 104, and CFD 106 with minimum grades of "C", eligibility for placement in ENG 101, and Reading Proficiency

**CFD 207. Societal Perspectives and Advocacy for Young Children. 3 Credit Hours.**
Societal Perspectives and Advocacy for Young Children will examine the importance of fostering understanding and respect for different cultures of young children. Topics include child and family advocacy, family backgrounds, social systems, and the role of community resources in promoting children's optimal development.
Prerequisites: Reading Proficiency

**CFD 208. Child and Family Development Capstone: Portfolio Design. 3 Credit Hours.**
Child and Family Development Capstone: Portfolio Design requires that child development candidates demonstrate a thorough understanding of early childhood professionalism, based on universal standards and expectations. Developmentally appropriate guidance and management, planning, implementation, personal presentation, and dispositions will be addressed. Seminar meetings will include preparation for job interviews, resume and application completion, portfolio completion, issues and trends in early childhood, and other discourse as would be shown by beginning-level professionals.
Prerequisites: Concurrent or prior enrollment in CFD 205 with a minimum grade of "C" and Reading Proficiency

**CFD 209. Management of Early Childhood Settings. 3 Credit Hours.**
Management of Early Childhood Settings focuses on the organizational and managerial structure of child care centers and home-based settings. Topics include licensing and accreditation standards, spatial design, fiscal responsibilities, employment procedures, staff development, marketing, and the planning and evaluation of center operations.
Prerequisites: CFD 103 with a minimum grade of "C" and Reading Proficiency

**CFD 210. Early Childhood Leadership Practicum. 3 Credit Hours.**
Early Childhood Leadership Practicum will examine the roles related to effective leadership practices in high-quality child care centers. The role and responsibilities of the child care director/owner will be analyzed. Subject matter includes conflict resolution, morale, retention, recruitment, constructive feedback, and support of staff. Sixty (60) hours of participation under the supervision of an early childhood owner/director are required.
Prerequisites: Concurrent or prior enrollment in CFD 209 with a minimum grade of "C" and Reading Proficiency

**CFD 211. Activities for Children with Special Needs. 3 Credit Hours.**
Activities for Children with Special Needs covers practical techniques for working with exceptional individuals, including task analysis and behavior modification. Experience with task analysis, universal design, screening, assessment, and charting behavior as part of developing and implementing individualized programs will be emphasized. This course requires 60 hours of practical experience in a setting with children with diagnosed disabilities.
Prerequisites: CFD 111 with a minimum grade of "C" and Reading Proficiency

# Chinese (CHI)

## Course Descriptions

**CHI 101. Elementary Chinese I (MOTR LANG 105). 4 Credit Hours.**
Elementary Chinese I is a beginning course that presents sentence structure and vocabulary needed to communicate in basic Chinese conversations. Students will learn about the Chinese culture as they practice listening, speaking, reading, and writing in Chinese. Students will communicate in written form using the Pinyin style of writing and will learn the correct tones for spoken Chinese.
Prerequisites: Reading Proficiency

**CHI 102. Elementary Chinese II (MOTR LANG 106). 4 Credit Hours.**
Elementary Chinese II is a continuation of Elementary Chinese I. The course expands vocabulary and grammar, and encourages communication in Chinese using present and past tenses. Students learn about the culture of China as they practice listening, reading, writing, and speaking in Chinese.
Prerequisites: CHI 101 with a minimum grade of "C" and Reading Proficiency

# Civil Engineering Technology (CE)

## Course Descriptions

**CE 116. Construction Blueprint Reading. 3 Credit Hours.**
Construction Blueprint Reading interprets working drawings and specifications for residential and commercial building projects. Architectural, structural, and utility drawings will be covered.
Prerequisites: Reading Proficiency

**CE 240. Surveying I. 3 Credit Hours.**
Surveying I teaches students instrument use and elementary surveying operations through a variety of field exercises. This includes the surveyor's tape, level, and total station, along with required mathematics and basic computations to complete surveys.
Prerequisites: Concurrent or prior enrollment in MTH 170 with a minimum grade of "C" or concurrent or prior enrollment in MTH 185 or higher with a minimum grade of "C" and Reading Proficiency

**CE 247. Legal Aspects of Boundary Surveying. 3 Credit Hours.**
Legal Aspects of Boundary Surveying teaches the legal principles of surveying including topics in boundaries, property law as applied to surveying, monumentation, deed interpretation, and professional liability, and ethics. Students will also discuss various principles of Missouri survey law, regulations such as the Missouri (and other state) Minimum Standards for Property Boundary Surveys, and the applicable portions of the standards for land title surveys of the American Land Title Association (ALTA)/National Society of Professional Surveyors (NSPS).
Prerequisites: Concurrent or prior enrollment in CE 240 with a minimum grade of "C" or department approval and Reading Proficiency

**CE 248. Land Records: Researching and Rules of Construction. 3 Credit Hours.**
Land Records: Researching and Rules of Construction teaches the knowledge required to perform land records research with deeds and other related records, survey records, and other land records preparatory to conducting property boundary surveys. The students examine evidence of ownership, historical information, property descriptions, and legal requirements for reviewing and recording documents. Applications of the applicable portions of the Missouri (and other state) Minimum Standards for Property Boundary Surveys as well as of the standards for land title surveys of the American Land Title Association (ALTA)/ National Society of Professional Surveyors (NSPS) are discussed. Various aspects of professional practice and ethics are also included.
Prerequisites: Concurrent or prior enrollment in CE 240 with a minimum grade of "C" or department approval and Reading Proficiency

**CE 250. Surveying II. 3 Credit Hours.**
Surveying II teaches the theory and practice of traverse computations. Topics that are introduced include concepts used in route surveying, elementary concepts of property boundary surveying, topographic mapping, volume calculations, and construction surveying. Elementary concepts of Geographic Information Systems (GIS), Global Positioning Systems (GPS) and State Plan Coordinate Systems (SPCS) are introduced. Students build on the instrument use and surveying operations learned in Surveying I.
Prerequisites: CE 240 with a minimum grade of "C" and Reading Proficiency

# Clinical Laboratory Technology (CLT)

## Course Descriptions

**CLT 100. Orientation to the Medical Laboratory. 1 Credit Hour.**
Orientation to the Medical Laboratory is an introduction to the profession of medical technology and its functions, specialties, and responsibilities. The philosophy and ethics of the practice of medical technology are considered, as are the interpersonal relationships of the technologist with medical staff, laboratory staff, patients, and other departments. Furthermore, emphasis on medical terminology knowledge will be stressed.
Prerequisites: Admission to the Clinical Laboratory Technology program and Reading Proficiency

**CLT 101. Medical Microbiology. 4 Credit Hours.**
Medical Microbiology examines the theory and principles of microorganisms and human disease. The growth requirements of microorganisms with consideration of media, biochemical reactions, and susceptibility testing will be studied. Application of theory will be practiced in laboratory sessions.
Prerequisites: Admission to the Clinical Laboratory Technology program, permission of the program director, and Reading Proficiency

**CLT 110. Urinalysis and Body Fluids. 3 Credit Hours.**
Urinalysis and Body Fluids is an introduction to urine and body fluid analysis. It studies the anatomy and physiology of the kidney and the physical, chemical, and microscopic examination of urine, cerebrospinal fluid, and other body fluids. It also emphasizes quality control, assurance, and safety.
Prerequisites: Admission to the Clinical Laboratory Technology program, permission of the program director, and Reading Proficiency

**CLT 111. Hematology and Coagulation. 4 Credit Hours.**
Hematology and Coagulation is an introduction to the theory and principles of the physiology of blood-forming organs. Blood cell maturation, blood dyscrasia, and techniques of staining, counting, and differentiating cell morphology are presented. (Credit is only allowed for either CLT 111 or CLT 103.)
Prerequisites: CLT 100 with a minimum grade of "C" or permission of the program director and Reading Proficiency

**CLT 113. Pathogenic Bacteriology. 3 Credit Hours.**
Pathogenic Bacteriology is the study of microorganisms, with an emphasis on bacteria associated with human diseases. The theory and principles of isolation, identification, biochemical reactions, growth requirements, and susceptibility testing are considered, and theory and practical application are stressed. (Credit is only allowed for either CLT 113 or CLT 104.)
Prerequisites: CLT 101 with a minimum grade of "C" or permission of the program director and Reading Proficiency

**CLT 115. Immunology and Serology. 3 Credit Hours.**
Immunology and Serology is the study of the theories and principles of immunological reactions. Course topics include antigen-antibody reactions, complement action, humoral and cellular immune responses, other body defenses, and reactions to infectious and non-infectious agents. Serological methodologies are also discussed, demonstrated, and practiced. (Credit is only allowed for either CLT 115 or CLT 210.)
Prerequisites: CLT 101 with a minimum grade of "C" and Reading Proficiency

**CLT 120. Clinical Laboratory Skill Development. 4 Credit Hours.**
Clinical Laboratory Skill Development provides the practice of fundamental skills common to most clinical laboratories. Skills such as pipetting, phlebotomy, use of small instruments, laboratory mathematics, determination of cell counts, and other diagnostic procedures are developed. Quality assurance and problem-solving skills are developed. (Credit is only allowed for either CLT 120 or CLT 105.)
Prerequisites: CLT 110, CLT 111, CLT 113, and CLT 115 all with minimum grades of "C" and Reading Proficiency

**CLT 202. Clinical Practice I. 4 Credit Hours.**
Clinical Practice I involves practical experience attained in one of the clinically affiliated laboratories. The bench technologists and faculty closely supervise the students as they rotate through each of the clinical laboratory's major departments. Rotation and practical experience are gained in the microbiology, clinical chemistry, blood bank, hematology, urinalysis, serology, and immunology departments.
Prerequisites: CLT 120 with a minimum grade of "C" and Reading Proficiency

**CLT 207. Clinical Practice II. 4 Credit Hours.**
Clinical Practice II is a continuation of Clinical Practice I where practical experience is attained in one of the clinically affiliated laboratories. The student rotates through each of the major departments of the clinical laboratory and is closely supervised by bench technologists and faculty. Rotation and practical experience is gained in microbiology, clinical chemistry, blood bank, hematology, urinalysis, serology, and immunology departments.
Prerequisites: CLT 202 with a grade of "S" and Reading Proficiency

**CLT 211. Parasites, Fungi, and Intracellular Pathogens. 2 Credit Hours.**
Parasites, Fungi, and Intracellular Pathogens introduces the role of parasites, fungi, and intracellular organisms in human diseases. This course covers the life cycles and diseases caused by parasites, fungi, and intracellular pathogens. Furthermore, students will learn how to identify these organisms using case studies and standard laboratory techniques such as microscopy, culture methods, and modern diagnostic tests. (Credit is only allowed for either CLT 211 or CLT 200.)
Prerequisites: CLT 101 with a minimum grade of "C" or the permission of the program director and Reading Proficiency

**CLT 213. Introduction to Clinical Chemistry. 3 Credit Hours.**
Introduction to Clinical Chemistry is an introduction to the principles and procedures of various laboratory tests performed in Clinical Chemistry. Specimen collection, instrumentation, mathematical calculations, and quality control are discussed. An introduction to proteins, carbohydrates, and lipids is included. (Credit is only allowed for either CLT 213 or CLT 201.)
Prerequisites: CLT 100 with a minimum grade of "C" and Reading Proficiency

**CLT 215. Immunohematology. 4 Credit Hours.**
Immunohematology includes the basic immunological and genetic principles governing blood groups and transfusion medicine. Theory and principles of routine laboratory testing procedures are included. (Credit is only allowed for either CLT 215 or CLT 204.)
Prerequisites: CLT 115 with minimum grade of "C" and Reading Proficiency

**CLT 217. Clinical Chemistry. 5 Credit Hours.**
Clinical Chemistry is an advanced study of the principles and procedures of various laboratory tests performed in the chemistry department. The clinical significance of proteins, enzymes, carbohydrates, lipids, electrolytes, and blood gases are covered. Endocrinology, therapeutic drug monitoring, and toxicology are discussed. (Credit is only allowed for either CLT 217 or CLT 206.)
Prerequisites: CLT 213 with a minimum grade of "C" or permission of program director and Reading Proficiency

**CLT 219. Professional Skills Seminar. 1 Credit Hour.**
Professional Skills Seminar stresses the interrelationships of laboratory tests correlated with diseases. The significance of laboratory testing and results are taught with a dynamic overview of diagnosis and prognosis. The course also includes cross-cultural communication and principles of technical training sufficient to orient a new employee. (Credit is only allowed for either CLT 219 or CLT 205.)
Prerequisites: CLT 202 with a grade of "S" or permission of the program director and Reading Proficiency
Corequisites: CLT 207

# College Studies (COL)

## Course Descriptions

**COL 110. College Foundations (MOTR IDSE 101). 2 Credit Hours.**
College Foundations focuses on the skills and strategies needed to be successful college students at St. Louis Community College. The development of academic skills, improving information literacy, and exploring career and self-development are emphasized. Students are introduced to the support services designed to assist them in their college career. Establishing these transferable skills allows students to personalize their college experience while reaching academic and career goals.

# Communications (COM)

## Course Descriptions

**COM 101. Oral Communication I (MOTR COMM 100). 3 Credit Hours.**
Oral Communication I is a basic course in speech communication. It offers students an opportunity to explore effective one-to-one, small group, and large group oral communication processes. Emphasis is placed on a theoretical/conceptual approach as well as skill development and application of oral communication concepts to various communication settings and relationships.
Prerequisites: Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency

**COM 103. Small Group Communication (MOTR COMM 125). 3 Credit Hours.**
Small Group Communication examines the principles and concepts of working with 3-12 people towards a common goal. Students will develop and improve communication skills that relate to organizing, analyzing, conducting, and participating in small group discussions and presentations.
Prerequisites: Reading Proficiency

**COM 104. Persuasion. 3 Credit Hours.**
This course examines the principles of persuasion as they apply to a wide variety of communication formats and situations. Students are given the opportunity to analyze and create persuasive messages that pertain to work, relationships, the mass media, and the arts. The course focuses on the skills necessary to become a more effective sender and receiver of persuasive communication.
Prerequisites: Reading Proficiency

**COM 107. Public Speaking (MOTR COMM 110). 3 Credit Hours.**
Public Speaking is a basic course in speech communication. This course studies the role of public speaking through the theory and practice of researching, organizing, and delivering public presentations. Audience analysis, critical listening, and the ethical dimensions of communication are also emphasized. Skills are developed through practicing speech fundamentals and analyzing presentations.
Prerequisites: Reading Proficiency

**COM 111. Voice and Articulation (MOTR PERF 100VD). 3 Credit Hours.**
Voice and Articulation is designed to meet the needs of students looking to improve common problems of voice, articulation, dialect, and language and to gain fundamental theory in voice and articulation. This course covers principles and practices of improving voice, articulation, pronunciation, foreign, and regional dialects in the context of literary and theatrical works. Considerable emphasis is placed on recognizing voice and articulation as a necessary tool for everyday communication as well as an art form. Audio-video recording is used frequently for self-evaluation.
Prerequisites: Reading Proficiency

**COM 112. Argumentation and Debate (MOTR COMM 220). 3 Credit Hours.**
Argumentation and Debate focuses student learning on building and analyzing arguments in persuasive speaking and debates. Course topics include the elements of argument, information management, debate mechanics, team dynamics, and defending positions on a topic. Students develop and refine skills to construct arguments as they discover topics, gather evidence, and gain delivery skills for persuading and debating.
Prerequisites: Reading Proficiency

**COM 117. Health Communication. 3 Credit Hours.**
This course focuses on patient-provider interactions and health literacy through communication theory and techniques for developing communication competency. Students are given the opportunity to examine and discuss content pertaining to health interactions with healthcare professionals, patients, other providers, corporate entities such as insurance companies, and those of various cultural backgrounds. Skills are developed through a variety of assignments such as discussion, role play, presentations, and other practical applications.
Prerequisites: Reading Proficiency

**COM 200. Communication Between Cultures (MOTR SBSC 101). 3 Credit Hours.**
Communication Between Cultures includes the study of the communication process, perception, verbal/nonverbal symbols, beliefs, values, world view, norms, identity, relationships, and social institutions. Students will examine communication topics such as barriers, language, and culture shock, and develop skills utilizing cultural research and case studies.
Prerequisites: Reading Proficiency

**COM 201. Interpersonal Communication (MOTR COMM 120). 3 Credit Hours.**
Interpersonal Communication will take a theoretical case study approach to the examination of interpersonal communication. Relational issues as they pertain to communication will be examined in depth. These issues will include conflict, stages of relationships, power, assertiveness, message analysis, and self-awareness.
Prerequisites: Reading Proficiency

# Computed Tomography (CT)

## Course Descriptions

**CT 101. Cross-Sectional Anatomy for Computed Tomography. 3 Credit Hours.**
Cross-Sectional Anatomy for Computed Tomography (CT) maps out anatomical structures of the human body in all planes of computed tomography. CT specific imaging characteristics are introduced. Instruction includes anatomical pathology and trauma induced pathology.
Prerequisites: Admission to the Computed Tomography (CT) program and Reading Proficiency

**CT 102. Principles and Patient Care in Computed Tomography. 3 Credit Hours.**
Principles and Patient Care in Computed Tomography (CT) discusses CT image production of routine, trauma, and procedural exams in the adult and pediatric settings. Evaluation of images for quality, patient positioning, and illustrations of anatomy both with and without contrast agents is introduced. Patient safety topics in preparing for the CT exams utilizing contrast agents is examined. The different types of vascular access devices are analyzed for use with the power injector for contrast administration. The power injector functionality and utilization is assessed.
Prerequisites: Admission to the Computed Tomography (CT) program and Reading Proficiency

**CT 103. Clinical Practicum I for Computed Tomography. 3 Credit Hours.**
Clinical Practicum I for Computed Tomography (CT) allows students to perform CT exams in the clinical setting to review for quality, accuracy, and completeness. CT procedures consisting of head, spine, musculoskeletal, neck, chest, abdomen, and pelvis are performed. An introduction to the quality assurance program specific to the clinical site is researched. Students document clinical exams performed by the student as required by the American Registry of Radiologic Technologists (ARRT) before taking the registry examination. Students can substitute this course with proof of 360 hours of worked CT time and documented exams that satisfy CT requirements of the ARRT CT registry examination.
Prerequisites: Admission to the Computed Tomography (CT) program and Reading Proficiency

**CT 104. Physics and Instrumentation in Computed Tomography. 3 Credit Hours.**
Physics and Instrumentation in Computed Tomography (CT) discusses technical components of the CT system as they relate to functionality, radiation physics, and radiation safety for both clinical staff and the patient. Students are introduced to the CT x-ray tube, detector systems, filters, and instrumentation. Additionally, image acquisition, reconstruction, and transfer to picture archiving communication systems are reviewed.
Prerequisites: Admission to the Computed Tomography (CT) program and Reading Proficiency

**CT 201. Radiation Safety and Quality Management in Computed Tomography. 2 Credit Hours.**
Radiation Safety and Quality Management in Computed Tomography (CT) discusses radiation safety for both clinical staff and the patient along with the different types of dose reduction techniques applicable in computed tomography. The quality review program for maintenance of safe imaging practices is analyzed and discussed. Federal and state regulatory agencies, accreditation agencies, and health organizations are outlined and reviewed.
Prerequisites: Admission to the Computed Tomography (CT) program and Reading Proficiency

**CT 202. Clinical Practicum II for Computed Tomography. 3 Credit Hours.**
Clinical Practicum II for Computed Tomography (CT) is an enhancement of Clinical Practicum I for CT where students perform CT examinations specific to the American Registry of Radiologic Technologists (ARRT) requirements specific to CT. In addition to the CT exam performance and documentation, students review the types of contrast used in the CT department specific to the clinical site. Students can substitute this course with proof of 360 hours of worked CT time and documented exams that satisfy CT requirements of the ARRT CT registry examination.
Prerequisites: CT 101, CT 102, CT 103, and CT 104 with a minimum grade of “C” and Reading Proficiency

**CT 203. Registry Review for Computed Tomography. 1 Credit Hour.**
Registry Review for Computed Tomography (CT) prepares the student for the American Registry of Radiologic Technologists (ARRT) CT post-primary registry examination. Key objectives within principles of CT instrumentation, radiation safety, quality management, patient care, and sectional anatomy and pathology are reviewed.
Prerequisites: ARRT or NMTCB Registered Technologist and documentation of 720 hours of clinical CT hours or concurrent or prior enrollment in CT 202 with a minimum grade of "C", and Reading Proficiency

# Computer Information Technology (CIT)

## Course Descriptions

**CIT 101. Introduction to Information Technology. 3 Credit Hours.**
Introduction to Information Technology introduces students to foundational concepts in information technology service management and the delivery of technology-enabled services within organizations. Students learn common industry terminology, how information technology (IT) services create value, service lifecycles and workflows, guiding principles for effective service delivery, organizational and technological considerations, and methods for continuous improvement.
Prerequisites: Reading Proficiency

**CIT 102. Information Technology Project Management. 3 Credit Hours.**
Information Technology Project Management introduces the principles and practices of project management within an information technology and organizational context. Students learn how to plan, execute, monitor, and close projects using widely accepted project management frameworks, tools, and documentation standards. Emphasis is placed on the full project life cycle, stakeholder engagement, scope and resource planning, schedule and cost control, risk and issue management, quality assurance, and performance tracking. Students apply project management concepts through the creation and management of project artifacts and by evaluating project methodologies appropriate to varying project environments.
Prerequisites: Reading Proficiency

**CIT 112. Introduction to Computer Science. 3 Credit Hours.**
Introduction to Computer Science provides a survey of technical topics related to computer systems, emphasizing the relationships between hardware, cloud architecture, systems, and application software. It explores algorithms, data storage and manipulation, networking and the Internet, number systems, data representation, data structures, database systems, processor architecture, operating systems functions, and concepts of programming languages.
Prerequisites: Reading Proficiency
Recommended Preparation: Basic computer literacy is expected

**CIT 116. Computer Literacy. 3 Credit Hours.**
Computer Literacy provides students with foundational knowledge and practical skills for using computers and information systems in academic, workplace, and everyday settings, with an emphasis on responsible technology use. The course introduces legal, ethical, privacy, and security considerations related to digital information. Students develop skills in retrieving, organizing, evaluating, and presenting information using web-based resources, cloud-based platforms, and common business productivity applications.
Prerequisites: Reading Proficiency

**CIT 125. Introduction to Databases. 3 Credit Hours.**
Introduction to Databases introduces students to the fundamental concepts, theories, and practices underlying the design, implementation, and management of databases. Throughout the course students explore various types of databases, including relational, NoSQL, and object-oriented databases, and gain a thorough understanding of their structures, functionalities, and applications. The course covers a wide range of topics, including database modeling, schema design, normalization, query languages, transaction management, data integrity, and security concepts. Students learn how to design and create a basic relational database schema using entity-relationship diagrams (ERDs) and implement them using Structured Query Language (SQL). This course is aligned to the Google Data Analytics course.
Prerequisites: Reading Proficiency

**CIT 130. Hardware Support - CompTIA A+ Core 1 (Hardware). 3 Credit Hours.**
Hardware Support - CompTIA A+ Core 1 (Hardware) covers the theory and hands-on skills necessary to pass the CompTIA A+ hardware (Core 1) exam. Topics covered include hardware fundamentals, networking, and security. Students learn basic operating system functionality and troubleshooting methodology, the practice of proper safety procedures, and how to effectively interact with customers and co-workers.
Prerequisites: Reading Proficiency

**CIT 141. Introduction to UX/UI Design. 3 Credit Hours.**
Introduction to UX/UI Design introduces the fundamentals of User Experience (UX) and User Interface (UI) design, pivotal components in creating effective and engaging digital products. Designed for beginners and intermediate designers alike, this course explores the principles of design thinking, user-centered design, and the interplay between visual aesthetics and functional usability. Through a blend of theoretical knowledge and practical exercises, students will learn how to craft intuitive interfaces and seamless user experiences. Emphasizing hands-on learning, the course covers the latest tools and techniques used by professionals in the field, like Adobe XD, Sketch, and Figma. Upon completion of this course, students will be able to tackle real-world projects. This course aligns with the Google UX Design Certificate.
Prerequisites: Reading Proficiency

**CIT 151. Computer Applications in Business. 4 Credit Hours.**
Computer Applications in Business covers software programs frequently used in the business environment. It introduces word processing, spreadsheets, database management, web-based email, presentation software, cloud-based tools and collaboration software.
Prerequisites: Concurrent or prior enrollment in IS 122 or IS 123 or IT 102 or HIM 102 or CIT 112 with a minimum grade of "C" or equivalent experience and Reading Proficiency

**CIT 153. Programming I with C#. 4 Credit Hours.**
Programming I with C# introduces students to software development using the C# programming language. Emphasizing structured problem-solving and algorithmic thinking, students will design, develop, and debug C# programs using core programming constructs and an integrated development environment (IDE). Students will also explore application life cycle phases, memory storage concepts, and Windows console and Graphical User Interface (GUI) programming fundamentals.
Prerequisites: Reading Proficiency

**CIT 155. Cloud Database Management. 4 Credit Hours.**
Cloud Database Management focuses on equipping students with the knowledge and skills necessary to effectively manage databases in the cloud using Amazon Web Services (AWS) and Azure platforms. Students explore the intricacies of configuring, optimizing, and securing cloud-based database solutions.
Prerequisites: CIT 125 and CIT 151 with minimum grades of "C", and Reading Proficiency

**CIT 160. Introduction to Data Visualization. 3 Credit Hours.**
Introduction to Data Visualization empower students with the skills and knowledge needed to transform complex datasets into clear, informative visual representations. Students explore the principles, tools, and techniques essential for creating compelling data visualizations that drive understanding and decision-making. Hands-on activities provide opportunities for participants to compare different visualization tools, applying their understanding to select the most suitable software for specific visualization tasks. Students synthesize their learning by combining multiple data sources into cohesive visualizations, demonstrating proficiency in advanced techniques such as interactive dashboards and animations.
Prerequisites: Concurrent or prior enrollment in CIT 125 and CIT 151 with minimum grade of "C" and Reading Proficiency

**CIT 164. Unix/Linux I. 3 Credit Hours.**
Unix/Linux I introduces the Unix/Linux operating system with special focus on the organization and maintenance of the file system. Students are also introduced to basic installation and configuration of the operating system and will build and troubleshoot a stand-alone Unix/Linux machine. Course objectives align with the Linux Professional Institute Level 1 certification and emphasize the command line process.
Prerequisites: Reading Proficiency

**CIT 165. Computer Applications - Microsoft Project. 1 Credit Hour.**
Computer Applications - Microsoft Project introduces students to the Microsoft Project software application. Microsoft Project allows students, professionals, volunteers, or individuals managing or working on a project to organize all the details of a project into one central repository.
Prerequisites: Reading Proficiency

**CIT 166. Programming I with C# and Java. 4 Credit Hours.**
Programming I with C# and Java teaches students software development problem-solving methodologies utilizing current software design and development tools and techniques. Students are also introduced to the C# and Java programming languages. Topics include data structures, program design, pseudocode, language control structures, procedures and functions, error handling, and object-oriented design using classes. Basic computer literacy is required.
Prerequisites: Reading Proficiency

**CIT 167. Programming I with C++. 4 Credit Hours.**
Programming I with C++ introduces software development problem-solving methodologies utilizing current software design and development tools and techniques. Topics include data structures, program design, pseudocode, language control structures, system and user-defined functions, error handling, pointers, arrays, and Object-Oriented design using classes.
Prerequisites: Reading Proficiency

**CIT 180. Programming I with Python. 3 Credit Hours.**
Programming I with Python introduces students to the foundational concepts of computer programming using Python. Students learn to think computationally and solve complex problems through lectures, hands-on exercises, and collaborative projects. The course emphasizes problem-solving analysis, program specifications, algorithm design, and exploring data structures and algorithms. By also exploring Object-Oriented Programming (OOP), students acquire a robust toolkit for tackling real-world programming challenges. Additionally, the course focuses on the importance of clear code documentation with flowcharts, pseudocode, and code recognition techniques. This course is aligned with the Python Institute PCEP - Certified Entry-Level Python Programmer Certification.
Prerequisites: Reading Proficiency

**CIT 187. Programming I with Java. 4 Credit Hours.**
Programming I with Java provides students with knowledge of software development problem-solving methodologies while utilizing current software design and development tools and techniques and also provides an introduction to the Java programming language. Topics include data structures, program design, pseudocode, language control structures, procedures and functions, error handling, and object-oriented design using classes.
Prerequisites: Reading Proficiency

**CIT 237. Fundamentals of Information Security - CompTIA Security+. 3 Credit Hours.**
Fundamentals of Information Security - CompTIA Security+ examines the fundamentals of network security involved in creating and managing secure computer network environments. Both hardware and software topics are considered, including authentication methods, remote access, network security architectures and devices, cryptography, forensics, and disaster recovery plans. This course serves as a preparation basis for the CompTIA Security+ exam.
Prerequisites: Prior or concurrent enrollment in IT 102 or prior or concurrent enrollment in CIT 164 with a minimum grade of "C" and Reading Proficiency

**CIT 241. Software Engineering and System Design. 4 Credit Hours.**
Software Engineering and System Design introduces the principles and practices of modern software engineering with an emphasis on systems design, collaborative development, and solution delivery. Students work in teams to analyze requirements, design and implement software solutions, and evaluate deployment infrastructures using contemporary tools and methodologies.
Prerequisites: CIT 253 or CIT 267 or CIT 287 or CIT 266 with a minimum grade of "C", and Reading Proficiency

**CIT 253. Programming II with C#. 4 Credit Hours.**
Programming II with C# builds upon core programming skills by focusing on advanced software development in C# using the .NET Framework and Windows Presentation Foundation (WPF). Students implement advanced object-oriented concepts, including inheritance, interfaces, encapsulation, polymorphism, and generics.
Prerequisites: CIT 153 or CIT 167 or CIT 187 or CIT 166 with a minimum grade of "C" and Reading Proficiency

**CIT 257. Advanced Data Analytics. 3 Credit Hours.**
Advanced Data Analytics is designed for students who have completed foundational courses in database systems, data analytics, and cloud database management. This course explores more advanced data analytics techniques, exploring complex data models, machine learning algorithms, big data technologies, and their applications in cloud environments. Students engage with real-world datasets, utilizing advance tools and platforms like Python, R, Spark, MongoDB, and Hadoop in cloud settings such as Azure and Amazon Web Services (AWS) to perform predictive modeling, data mining, and comprehensive data analysis. Emphasis is on interactive learning, including hands-on projects, case studies, and collaborative research tasks, to prepare students s in the field of data science and analytics.
Prerequisites: CIT 125, CIT 285, and CIT 155 with minimum grades of "C", and Reading Proficiency

**CIT 264. Unix/Linux II. 3 Credit Hours.**
Unix/Linux II prepares students to perform basic Unix/Linux systems administration and network installation tasks. Students are introduced to the design, configuration, and installation of system services along with the management and automation of those services through shell scripting. System security is also covered. Course objectives align with the Linux Professional Institute Level 1 certification.
Prerequisites: CIT 164 with a minimum grade of "C" and Reading Proficiency

**CIT 266. Programming II with C# and Java. 4 Credit Hours.**
Programming II with C# and Java builds upon the foundations of Programming I with C# and Java. This course takes an in-depth approach to programming with object-oriented programming, covering advanced topics such as inheritance, polymorphism, encapsulation, interfaces, abstract classes, exception handling, and collections. Students develop more complex applications, emphasizing connecting to data sources, code efficiency, and design patterns.
Prerequisites: CIT 166 with minimum grade of "C" and Reading Proficiency

**CIT 267. Programming II with C++. 4 Credit Hours.**
Programming II with C++ focuses on broadening and deepening the student's understanding of Object Oriented Programming (OOP) as implemented in the C++ language. Core elements include design and development of classes and use of inheritance, including multiple inheritance, polymorphism, and the use of the Standard Template Library. Development of Graphical User Interfaces in an integrated development environment (IDE) will be explored.
Prerequisites: CIT 167 with a minimum grade of "C" and Reading Proficiency

**CIT 270. C++ Frameworks. 3 Credit Hours.**
C++ Frameworks provides an in-depth exploration of modern C++ frameworks used in software development, including Graphical User Interface (GUI) development, game engines, web frameworks, and scientific computing. Students learn how to utilize C++ frameworks to build efficient, scalable applications while mastering best practices in memory management, multithreading, and application programming interface (API) integration.
Prerequisites: CIT 267 with a minimum grade of "C" and Reading Proficiency

**CIT 280. Programming II with Python. 4 Credit Hours.**
Programming II with Python shifts focus towards desktop application development and advanced data analysis, building on introductory Python programming skills. This course creates graphical user interfaces (GUIs) for desktop applications using libraries such as Tkinter or PyQt and enhances data analysis capabilities with NumPy, Pandas, and Matplotlib. It is designed for students aiming to develop comprehensive desktop applications and perform sophisticated data analysis, equipping them with the necessary skills to solve complex problems and create user-friendly software solutions.
Prerequisites: CIT 180 with a minimum grade of "C" and Reading Proficiency

**CIT 285. Principles of Data Analytics. 3 Credit Hours.**
Principles of Data Analytics explores the fundamental principles of data analysis techniques and statistical modeling. Students utilize higher order thinking skills, including applying statistical models, analyzing data to uncover patterns and trends, and critically evaluating the reliability of analytical findings. Students also engage in problem-solving activities, designing and implementing data analysis pipelines using programming languages and software tools.
Prerequisites: CIT 125 with a minimum grade of "C" and Reading Proficiency

**CIT 287. Programming II with Java. 4 Credit Hours.**
Programming II with Java focuses on broadening and deepening the student's understanding of Object-Oriented Programming (OOP) and functional programming as implemented in the Java language. Core elements include the design and development of classes, using inheritance, encapsulation, polymorphism, and interfaces. The Model-View-Controller (MVC) pattern for web application development is introduced, along with object-relational mapping using Java frameworks such as Hibernate and Spring.
Prerequisites: CIT 153 or CIT 167 or CIT 187 or CIT 166 with a minimum grade of "C" and Reading Proficiency

**CIT 290. C# Frameworks. 3 Credit Hours.**
C# Frameworks teaches the .NET Web application framework using C#. Students expand their C# development skills and gain the knowledge and skills required to design and develop Web applications by using the latest version of the Microsoft .NET framework, including .NET Core and Microsoft Visual Studio.
Prerequisites: CIT 253 with a minimum grade of "C" and Reading Proficiency

**CIT 291. Workplace Learning: Computer and Information Technology. 3-4 Credit Hours.**
Workplace Learning: Computer and Information Technology consists of a workplace assignment with an employer or agency, or an internship project. Students will complete a minimum of 100 hours and a maximum of 150 hours of internship during the semester, which allows the student to apply skills learned in the classroom. Students will have the opportunity to learn new skills and explore career possibilities while supervised by the employer and a faculty member. Students will also learn career readiness skills, resume writing, cover letter writing, interview techniques, video interview, and soft skills development. This course is appropriate for students nearing completion of their technology degree and preparing for internship or employment.
Prerequisites: Enrollment in a CIT or IT program, department approval, and Reading Proficiency
Recommended Preparation: Portfolio is recommended

**CIT 296. Java Frameworks. 3 Credit Hours.**
Java Frameworks focuses on modern Java application development using contemporary frameworks and tools commonly employed in enterprise and cloud-based environments. Students develop Java applications using Spring Boot, dependency injection, RESTful web services, and object-relational mapping. Emphasis is placed on layered architecture, application programming interface (API)-driven design, data persistence, security fundamentals, asynchronous communication, and cloud-ready deployment practices.
Prerequisites: CIT 287 with a minimum grade of "C" and Reading Proficiency

# Criminal Justice (CRJ)

## Course Descriptions

**CRJ 101. American Correctional System. 3 Credit Hours.**
American Correctional System focuses on the history, philosophy, theory, and practice of offender punishment and rehabilitation in the United States. It includes a survey of institutional and community corrections operations and an examination of the constitutional rights of offenders.
Prerequisites: Concurrent or prior enrollment in CRJ 122 with a minimum grade of "C" and Reading Proficiency

**CRJ 111. Rules of Criminal Evidence. 3 Credit Hours.**
Rules of Criminal Evidence examines the rules of evidence as they relate to the investigation, prosecution, and defense of criminal cases. Major topics focus on the procedures and rules of evidence as they apply to the acquisition, offering, admissibility, and presentation of evidence from crime scene to courtroom.
Prerequisites: Concurrent or prior enrollment in CRJ 122 with a minimum grade of "C" and Reading Proficiency

**CRJ 122. Introduction to Criminal Justice (MOTR CRJS 101). 3 Credit Hours.**
Introduction to Criminal Justice is a survey of the history and philosophy of the criminal justice system in America. The course examines the three major components: police, courts, and corrections. Emphasis will be given to the system's response to crime in society as well as theories of crime, punishment, and rehabilitation.
Prerequisites: Reading Proficiency

**CRJ 123. Juvenile Justice. 3 Credit Hours.**
Juvenile Justice gives students an overview of American juvenile justice in terms of both system and practice. It examines the juvenile offender, causes of juvenile crime, the juvenile court system, and juveniles in the adult court system. This course also looks at institutionalization, rehabilitation, the treatment of juveniles, and the future of juvenile justice in America.
Prerequisites: Concurrent or prior enrollment in CRJ 122 with a minimum grade of "C" and Reading Proficiency

**CRJ 124. Criminal Law and Procedures. 3 Credit Hours.**
Criminal Law and Procedures introduces students to the study of American criminal law and procedure. Major topics of study include the purposes of criminal law, the elements of criminal law, defenses and justifications, and constitutional limitations.
Prerequisites: Concurrent or prior enrollment in CRJ 122 with a minimum grade of "C" and Reading Proficiency

**CRJ 129. Introduction to Law Enforcement. 3 Credit Hours.**
Introduction to Law Enforcement is an examination of American law enforcement on the local, state, and federal levels. Major topics include the historical development of law enforcement, the role of law enforcement in the criminal justice system, laws of arrest, search and seizure requirements and limitations, contemporary police organizations, methods of department operation, and the relationship of the police to the communities they serve. (Credit is only allowed for either CRJ 129 or CRJ 207.)
Prerequisites: Concurrent or prior enrollment in CRJ 122 with a minimum grade of "C" and Reading Proficiency

**CRJ 206. Diversity and Criminal Justice. 3 Credit Hours.**
Diversity and Criminal Justice provides an in-depth examination of the opportunities and challenges of delivering criminal justice services in a diverse society. Emphasis is placed on an understanding of the diversity, equity, and inclusion challenges that exist in criminal justice agencies and their interactions with the public. It examines issues of bias, prejudice, and discriminatory practices as factors contributing to conflict and provides both theoretical and practical information to effectively deliver services.
Prerequisites: Concurrent or prior enrollment in CRJ 122 with a minimum grade of "C" and Reading Proficiency

**CRJ 209. Criminal Justice Practicum. 3 Credit Hours.**
Criminal Justice Practicum is a field work experience in a program-approved criminal justice organization. Students are expected to commit themselves to 150 hours of work experience during the semester.
Prerequisites: Concurrent or prior enrollment in CRJ 122 with a minimum grade of "C" and Reading Proficiency
Corequisites: CRJ 211

**CRJ 211. Criminal Justice Practicum Seminar. 3 Credit Hours.**
Criminal Justice Practicum Seminar is the discussion and analysis in small groups of the Criminal Justice Practicum experience.
Prerequisites: Concurrent or prior enrollment in CRJ 122 with a minimum grade of "C" and Reading Proficiency
Corequisites: CRJ 209

**CRJ 212. Criminal Investigation. 3 Credit Hours.**
Criminal Investigation introduces students to the fundamentals of criminal investigations, including the investigation of violent and property crimes. Major topics include best practices for processing crime scenes, evidentiary considerations, interviewing witnesses and victims, interrogation, report writing, and testifying in court.
Prerequisites: Concurrent or prior enrollment in CRJ 122 with a minimum grade of "C" and Reading Proficiency

**CRJ 218. Criminal Justice Policy. 3 Credit Hours.**
Criminal Justice Policy examines the foundations of criminal justice policy including its creation, implementation, and assessment. Topics include the politics of crime, the influence of research on policy, the consequences of criminal justice policy, and current trends in criminal justice policy.
Prerequisites: Concurrent or prior enrollment in CRJ 122 with a minimum grade of "C" and Reading Proficiency

# Culinary Arts (CUL)

## Course Descriptions

**CUL 101. Safety and Sanitation. 1 Credit Hour.**
Safety and Sanitation prepares students to take the ServSafe Food Protection Manager Certification exam. Content focuses on the sanitation and safety issues involved with handling food through the food-service process. The course covers the causes and prevention of foodborne illnesses, laws for consumer protection, pest prevention, and the principles of Hazard Analysis Critical Control Points (HACCP).
Prerequisites: Reading Proficiency

**CUL 110. Food Preparation Practical I. 3 Credit Hours.**
Food Preparation Practical I introduces competencies for tools and equipment, kitchen organization, converting and following recipes, applying safety and sanitation, vegetable cuts (American Culinary Federation competition cuts), stocks, sauces, and basic cooking methods. (Credit is allowed for only one of the following courses: CUL 110, HRM 110, or HRM 140.)
Prerequisites: CUL 101 with a grade of "S", HTM 100 with a minimum grade of "C", and Reading Proficiency

**CUL 115. Food Preparation Practical II. 3 Credit Hours.**
Food Preparation Practical II introduces the student to the subject of meats and their application in foodservice operations. Students will learn about the muscle and bone structure of beef, veal, pork, lamb, poultry, and fish; fabrication methods for sub-primal and foodservice cuts; and proper tying and trussing methods. Topics will include meat inspection, quality and yield grading, costing and yield testing, purchasing specifications, preferred cooking methods for all meats, proper knife selection, and butchery equipment. Sanitation and safety standards will be stressed throughout. (Credit is allowed for only one of the following courses: CUL 115, HRM 110, or HRM 145.)
Prerequisites: CUL 110 with a minimum grade of "C" and Reading Proficiency

**CUL 120. Food Preparation Practical III. 3 Credit Hours.**
Food Preparation Practical III allows students to master the foundation of cooking techniques and theories from Food Preparation Practical I and II. Emphasis is placed on individual as well as team production. The focus is on cooking fundamentals, ratios, and formulas in a professional kitchen.
Prerequisites: CUL 115 with a minimum grade of "C" and Reading Proficiency

**CUL 150. Culinary Essentials. 3 Credit Hours.**
Culinary Essentials will introduce students enrolled in non-Culinary Arts curricula to the fundamentals of savory food production. Proper methods of preparing stocks, soups, sauces, classical vegetable cuts, and basic cooking principles for meat, poultry, seafood, sandwiches, breakfast, starches, vegetables, and salads will be paramount.
Prerequisites: CUL 101 with a grade of "S", HTM 100 with a minimum grade of "C", and Reading Proficiency

**CUL 201. Garde Manger. 2 Credit Hours.**
Garde Manger is designed to allow the student to develop fundamental principles of the cold kitchen including methods of salad and sandwich preparation. Aspic gelee, chaud-froid, hors de oeuvres, canapes, and appetizers are prepared along with buffet and platter presentations, ice and vegetable carvings, pickling, smoking, and condiments. Students will also gain an understanding of various cheese categories and their culinary uses. (Credit is only allowed for either CUL 201 or HRM 119.)
Prerequisites: BAP 150 and CUL 120 with minimum grades of "C" and Reading Proficiency

**CUL 205. Global Cuisine. 2 Credit Hours.**
In Global Cuisine, students prepare, taste, serve, and evaluate traditional, regional dishes of Europe, the Mediterranean, Asia, Africa, and Middle East. Emphasis will be placed on ingredients, flavor profiles, preparation, and techniques representative of various global cuisines. (Credit is only allowed for either CUL 205 or HRM 129.)
Prerequisites: BAP 150 and CUL 120 with minimum grades of "C" and Reading Proficiency

**CUL 210. Nutritional Cooking. 2 Credit Hours.**
Nutritional Cooking focuses on evaluating and preparing foods for a healthy diet. Recipes will be prepared using a variety of high quality foods that provide balanced nutrition throughout the life cycle. Focus will be placed on modifications to standardized recipes tailored to dietary needs. (Credit is only allowed for either CUL 210 or HRM 225.)
Prerequisites: DIT 115, BAP 150, and CUL 120 with minimum grades of "C" and Reading Proficiency

**CUL 215. American Regional Cuisine. 2 Credit Hours.**
American Regional Cuisine introduces the student to the foods from distinct culinary localities throughout the United States. Students will gain the opportunity to develop professional culinary skills using a diverse selection of high-quality ingredients indigenous to the United States. Preparation of selected recipes will showcase varied cooking methods and presentations. (Credit is only allowed for either CUL 215 or HRM 230.)
Prerequisites: CUL 120 and BAP 150 with minimum grades of "C" and Reading Proficiency

**CUL 220. Introduction to a la Carte Cooking. 2 Credit Hours.**
Introduction to à la Carte Cooking introduces standard workstation organization used to execute food preparation for à la carte cooking service. Topics include menu and recipe interpretation and conversion, expedient cooking methods, plating design, and saucing principles. Students will prepare à la carte orders using various cooking methods and summarize food costs of composed plated meals. Coursework will follow standards outlined by the American Culinary Federation Certified Sous Chef certification.
Prerequisites: BAP 150 and CUL 120 with minimum grades of "C", and Reading Proficiency

**CUL 250. Culinary Arts Capstone. 6 Credit Hours.**
Culinary Arts Capstone requires the student to use both technical knowledge and managerial ability to organize and complete a commercial simulation of a full-service dining operation. Students will participate in food preparation, managerial tasks, and front-of-house serving duties. This culminating experience will ensure students meet all necessary requirements for obtaining the Certified Culinarian certification through the American Culinary Federation. (Credit is allowed for only one of the following courses: CUL 250, HRM 200, or HRM 260.)
Prerequisites: BAP 150, CUL 201, CUL 205, CUL 210, CUL 215, CUL 220, HTM 200, HTM 210 all with a minimum grade of "C", and Reading Proficiency

# Deaf Communication Studies (DCS)

## Course Descriptions

**DCS 104. American Sign Language I (MOTR LANG 105). 4 Credit Hours.**
American Sign Language I provides intensive exposure to basic ASL expressively and receptively. This course is an immersive environment language. The course introduces fingerspelling and numbers to 100. Syntax covers statements, questions, negation, commands, spatial agreement, and modifying verbs. Topics include family, relationships, living arrangements, personal activities, duration and frequency, and giving directions. Discourse includes narration, description, and contrast. Deaf cultural norms include attention-getting, introductions, negotiating a signing environment, and feedback for confirmation or clarification. Creative works include jokes, history, and narratives.
Prerequisites: Reading Proficiency

**DCS 105. American Sign Language II (MOTR LANG 106). 4 Credit Hours.**
American Sign Language II expands on ASL I and provides intensive exposure to intermediate ASL. This course is an immersive environment language. Topics include advice, opinions, goals, plans, knowledge and abilities, clothing, years, months, time, prices, states, and provinces. Syntax includes negation, locative classifiers, temporal aspects of verbs, role shifts, and perspective shifts. Discourse includes narration, comparison, and requests. Deaf cultural norms include greetings, leave-taking, and biographies of accomplished Deaf individuals. Creative works include fables.
Prerequisites: DCS 104 with a minimum grade of "C" and Reading Proficiency

**DCS 106. American Sign Language III. 4 Credit Hours.**
American Sign Language III provides continued intensive exposure to intermediate American Sign Language, allowing the development of broader and more accurate expressive and receptive skills. Instruction is delivered in total immersion. Emphasis is on receptive skills and text structure (narration, listing, analysis of a whole into parts, comparison and contrast, exemplification, and explanation). Topics include describing and locating items in the house, spatial agreement, temporal aspects of verbs, and 3-digit numbers. The course includes an introduction to literary genres such as handshape stories, cheers and songs, signed poetry, legends, and drama, and to some accomplished Deaf individuals of the past or present. Functional skills include getting and directing attention, controlling the pace of conversation, and asking for clarification of fingerspelling.
Prerequisites: DCS 105 with a minimum grade of "C" and Reading Proficiency

**DCS 107. Fingerspelling and Numbers. 3 Credit Hours.**
Fingerspelling and Numbers provides the theory and practice necessary for students to recognize and produce the American Sign Language (ASL) manual alphabet and numeric systems. Instruction is delivered in total immersion. Topics include what must be fingerspelled, what may be fingerspelled, proper names, fingerspelled loan signs, American Sign Language numeric systems, numeral incorporation, and standard fingerspelled abbreviations.
Prerequisites: DCS 104 with a minimum grade of "C" and Reading Proficiency

**DCS 108. The Interpreting Profession. 2 Credit Hours.**
The Interpreting Profession introduces students to interpreting as an occupation and profession. Topics include a brief history of the profession, models of interpreting, roles and responsibilities of the interpreter, introduction to professional ethics, demand-control schema, interpersonal skills, professional standards, interpreter certification and licensure, and business practices.
Prerequisites: Reading Proficiency

**DCS 109. Grammar and Vocabulary for Interpreters. 3 Credit Hours.**
Grammar and Vocabulary for Interpreters instructs students in the principles of vocabulary building and avoiding common grammatical errors. Vocabulary emphasizes Latin and Greek roots, prefixes, and suffixes, English idioms, word denotations, connotations, and usage, equivalent American Sign Language vocabulary, contextual clues to word meaning, and registers of discourse. Grammar review includes parts of speech, syntax, agreement, verb tenses, and drawing inferences from printed texts.
Prerequisites: Concurrent or prior enrollment DCS 106 with a minimum grade of "C", concurrent or prior enrollment in ENG 101 with a minimum grade of "C" , and Reading Proficiency

**DCS 111. American Sign Language Linguistics. 3 Credit Hours.**
American Sign Language Linguistics presents the phonetics, morphology, semantics, and syntax of American Sign Language in contrast to English. Topics include origins of American Sign Language, basic linguistic terminology of both languages, common sentence types in both language, and features unique to American Sign Language such as spatialization, directionality, role shifting, classifiers, fingerspelled loan signs, multiple methods of negation, sign variation, and non-manual features.
Prerequisites: Concurrent or prior enrollment in DCS 104 with a minimum grade of "C" and Reading Proficiency

**DCS 115. Introduction to Deaf Culture. 3 Credit Hours.**
Introduction to Deaf Culture surveys Deaf history, the physiology of the ear, causes and types of hearing loss, social and psychological aspects of deafness, adaptive technology, access to non-Deaf society, historical and current approaches to Deaf education, common features of Deaf culture, and careers related to deafness.
Prerequisites: Reading Proficiency

**DCS 116. American Sign Language Semantics. 3 Credit Hours.**
American Sign Language Semantics expands students' knowledge, recognition, and understanding of American Sign Language semantic units (signs and idioms) and their denotations, connotations, and usage. Focus is on advanced intermediate ASL vocabulary (100+ signs), translating ASL idiomatic expressions to equivalent English meaning and usage, and reinforcing common ASL syntactic patterns. Expressive and receptive ASL skills acquired in other courses are reinforced and further developed in the course.
Prerequisites: Concurrent or prior enrollment in DCS 105 with a minimum grade of "C" and Reading Proficiency

**DCS 118. Sign Seminar. 3 Credit Hours.**
Sign Seminar provides additional interactive opportunities for students to expand American Sign Language vocabulary, grammar, syntax, and semantics. Instruction is delivered in total immersion. Students interact with signers from the local Deaf community, on a variety of topics. Instructional approaches include discussion, expansion, and explanation in the target language. Colloquialisms, registers of discourse, and socially restricted vocabulary are included. (Credit is only allowed for either DCS 118 or DCS 514.)
Prerequisites: DCS 105 with a minimum grade of "C" and Reading Proficiency

**DCS 121. American Sign Language IV. 4 Credit Hours.**
American Sign Language IV provides intensive exposure to advanced American Sign Language (ASL) developing expressive and receptive skills. Instruction is delivered in total immersion. Receptive skills are emphasized by focusing on signed narrations. Textual structures include analysis, listing, comparison, exemplification, and process analysis.
Prerequisites: DCS 106 with a minimum grade of "C" and Reading Proficiency

**DCS 122. Translation. 3 Credit Hours.**
Translation is a foundational course that introduces students to the knowledge and skills necessary for converting meaning from one language to another, given ample time and resources. Frozen source texts are converted to frozen target texts. The languages to be translated are American Sign Language and English. Topics require broad extralinguistic knowledge of Deaf and non-Deaf American cultures.
Prerequisites: Concurrent or prior enrollment in DCS 106 with a minimum grade of "C", concurrent or prior enrollment in DCS 109 with a minimum grade of "C", and Reading Proficiency

**DCS 124. Concept Associations in American Sign Language. 2 Credit Hours.**
Concept Associations in American Sign Language explores the evolution of signs and how they change over time. This course examines the development of individual sign in American Sign Language. Strategies will be investigated to increase retention of individual signs.
Prerequisites: Concurrent or prior enrollment in DCS 104 with a minimum grade of "C" and Reading Proficiency

**DCS 206. Interpreting I. 3 Credit Hours.**
Interpreting I is an intermediate skills-based course. Students practice the skills necessary to interpret from spoken English source text to signed target text. Target texts include both American Sign Language (ASL) and Conceptually Accurate Signed English (CASE). Source texts increase in length and complexity throughout the semester. Professional standards in the interpreting field will also be discussed.
Prerequisites: DCS 122 with a minimum grade of "C" and Reading Proficiency

**DCS 210. Sign to Voice Interpreting I. 3 Credit Hours.**
Sign to Voice Interpreting I is an intermediate skills-based course. Students practice the skills necessary to interpret from signed source texts to spoken English target texts. Source texts include both American Sign Language and Conceptually Accurate Signed English. Source texts include a variety of topics and discourse patterns.
Prerequisites: DCS 122 with a minimum grade of "C" and Reading Proficiency

**DCS 211. Specialized Interpreting. 3 Credit Hours.**
Specialized Interpreting surveys settings and topics which may include legal, medical, mental health, employment, religious, platform, rehabilitation, Deaf-Blind, or performing arts. Students are exposed to specialized topics, and experience the interpreting demands inherent in them, for the purpose of exploring professional interests. The course also introduces students to specialized communication techniques such as those used for clients who are Deaf-Blind, oral, or high-visual.
Prerequisites: DCS 206 with minimum grade of "C" and Reading Proficiency

**DCS 212. Deaf History and Culture. 3 Credit Hours.**
Deaf History and Culture teaches historical and current values and traditions within the American Deaf community. Values include the importance of community and clubs, approaches to Deaf education, adaptive devices and technology, interpreter services, and the preservation of American Sign Language. Traditions include humor as a coping technique, honoring successful Deaf leaders, role models, and innovators, and behaviors of empowerment. Instruction is delivered in total immersion.
Prerequisites: DCS 121 with a minimum grade of "C" and Reading Proficiency

**DCS 213. Professional Issues and Ethics. 2 Credit Hours.**
Professional Issues and Ethics explores the role of ethics and decision-making in professional practice. Topics include general theories of ethics, self-analysis of students' current ethical development, ethical standards of the interpreting profession as defined by the Registry of Interpreters for the Deaf Code of Professional Conduct and by Missouri's Ethical Rules of Conduct for Interpreters, application of ethical theories and standards to hypothetical situations, and ethical business practices.
Prerequisites: DCS 220 with a minimum grade of "C" and Reading Proficiency

**DCS 215. Interpreter Seminar. 2 Credit Hours.**
Interpreter Seminar provides additional optional time on task for students to continue development of interpreting skills. Students practice sign to voice and voice to sign interpreting, in English, American Sign Language, and Conceptually Accurate Signed English on a variety of topics. Instructional approaches include discussion, expansion, and comparison and contrast. In addition, the course focuses on cross cultural mediation and discourse analysis.
Prerequisites: DCS 206 and DCS 210 with minimum grades of "C" and Reading Proficiency

**DCS 216. Educational Interpreting. 3 Credit Hours.**
Educational Interpreting presents the principles of interpreting in kindergarten through post-secondary settings. Topics include federal and state laws, deaf children's linguistic, psychological, and social development, strategies for interpreting in educational settings, the interpreter's role in facilitating communication between Deaf individuals and peers, instructors, and staff, and the interpreter as a member of an educational team. Employment aspects of educational interpreting are considered. Students interpret signed and spoken texts from kindergarten through post-secondary topics.
Prerequisites: DCS 206 with a minimum grade of "C" and Reading Proficiency

**DCS 218. Interpreter Field Experience. 2 Credit Hours.**
Interpreter Field Experience is an intermediate school-to-work course. Students interpret in settings that do not require a professional interpreter. Practicum interpreting is combined with instruction to prepare and debrief assignments. Topics include professional organizations, state certification, qualifications, preparation time and resources, practical situational factors, and professional presentation and behavior.
Prerequisites: Concurrent or prior enrollment in DCS 213 and DCS 222 with a minimum grade of "C" and Reading Proficiency

**DCS 219. Workplace Learning: DCS. 3 Credit Hours.**
Workplace Learning: DCS is the culminating school-to-work course. Students engage in practicum interpreting, applying theory and skills learned in the classroom and previous practicum assignments, and explore career possibilities while supervised by a faculty member. Students accumulate a minimum of 150 hours in the workplace throughout the semester. (Credit is only allowed for either DCS 219 or DCS 208.)
Prerequisites: DCS 213 and DCS 218 with minimum grades of "C" , and Reading Proficiency

**DCS 220. Interpreting II. 3 Credit Hours.**
Interpreting II supports students in developing interpreting skills from spoken English source text to signed target text. Source texts include a variety of topics and discourse patterns that increase in length and complexity throughout the semester. Target texts include American Sign Language (ASL) and Conceptually Accurate Signed English (CASE). Students learn techniques to recognize and repair errors, and to analyze and improve interpretations.
Prerequisites: DCS 206 with a minimum grade of "C" and Reading Proficiency

**DCS 221. Sign to Voice Interpreting II. 3 Credit Hours.**
Sign to Voice Interpreting II supports students in developing interpreting skills from American Sign Language (ASL) or Conceptually Accurate Signed English (CASE) source texts to spoken English target texts. Source texts include a variety of topics and discourse patterns. Source texts increase in length and complexity throughout the semester. Students learn techniques to recognize and repair errors, and to analyze and improve interpretations.
Prerequisites: DCS 210 with a minimum grade of "C" and Reading Proficiency

**DCS 222. Advanced Interpreting. 3 Credit Hours.**
Advanced Interpreting prepares students for the state interpreting certification performance evaluation. Students take six mock state tests, including voice to sign transliterating, voice to sign interpreting, sign to voice interpreting, and sight translation. Mock tests are scored in the same manner as the state test. Students self-critique mock tests to analyze successes and challenges and develop action plans to improve interpretations.
Prerequisites: DCS 211, DCS 216, DCS 220, and DCS 221 with minimum grades of "C" and Reading Proficiency

# Dental Hygiene (DHY)

## Course Descriptions

**DHY 150. Concepts in Clinical Dental Hygiene I: Pre-Clinic. 3 Credit Hours.**
Concepts in Clinical Dental Hygiene I: Pre-Clinic introduces the basic foundations for competent delivery of preventive, therapeutic, and educational dental hygiene services to the public. A solid knowledge base for assessment, planning, implementation, and evaluation of patient care is established. Theory and practical aspects of prevention of disease transmission in the dental setting and patient assessment skills such as health history, vital signs, oral inspections, principles of instrumentation, and treatment planning are emphasized.
Prerequisites: BIO 203, BIO 207, BIO 208, and CHM 101 with minimum grades of "C", and Reading Proficiency
Corequisites: DHY 152, DHY 154, DHY 155, DHY 156, DHY 157, DHY 158, DHY 159

**DHY 152. Clinical Dental Hygiene I: Pre-Clinic. 3 Credit Hours.**
Clinical Dental Hygiene I: Pre-Clinic introduces skills for delivering preventive, educational, and therapeutic dental hygiene care. Students gain experience through simulation using dental manikins and peer partners while developing competencies in assessment, instrumentation, infection control, treatment planning, and evaluation. Emphasis is placed on health history, vital signs, oral inspections, and professional communication.
Prerequisites: BIO 203, BIO 207, BIO 208, and CHM 101 with minimum grades of "C", and Reading Proficiency
Corequisites: DHY 150, DHY 154, DHY 155, DHY 156, DHY 157, DHY 158, and DHY 159

**DHY 154. Periodontics I. 2 Credit Hours.**
Periodontics I introduces the healthy periodontium and provides a foundation in the etiology and classification of gingival diseases. Topics include plaque and calculus formation, contributing risk factors, and the microbiology of periodontal conditions. Students also learn principles of patient education and self-care techniques for maintaining periodontal health.
Prerequisites: BIO 203, BIO 207, BIO 208, and CHM 101 with minimum grades of "C", and Reading Proficiency
Corequisites: DHY 150, DHY 152, DHY 155, DHY 156, DHY 157, DHY 158, and DHY 159

**DHY 155. Dental Radiology. 2 Credit Hours.**
Dental Radiology covers the history, production, effects, and applications of radiation in dentistry. The course emphasizes digital imaging, exposure control, radiographic techniques, equipment safety, and legal and ethical responsibilities. Students learn to identify anatomical landmarks, restorations, and dental materials, and to recognize conditions such as periodontal disease, caries, and periapical lesions.
Prerequisites: BIO 203, BIO 207, BIO 208, and CHM 101 with minimum grades of "C", and Reading Proficiency
Corequisites: DHY 150, DHY 152, DHY 154, DHY 156, DHY 157, DHY 158, and DHY 159

**DHY 156. Pre-Clinical Dental Radiology. 1 Credit Hour.**
Pre-Clinical Dental Radiology introduces techniques for dental radiograph placement, exposure, imaging, and analysis. Students practice intraoral and extraoral radiographs on DXTTR mannequins, adhering to safety and protection guidelines. In preparation for clinical care, radiographic techniques are performed on peer partners without radiation exposure. These sessions also include patient education, infection control, screening and selection procedures, and radiology rotation duties. Radiographic techniques covered include paralleling, bisecting, localization, occlusal, panoramic, and panoramic bitewings. Students explore various intraoral sensors, positioning devices, and dental x-ray equipment. Radiographs are evaluated for anatomical accuracy and technique errors, with students self-assessing and applying corrective measures to produce high-quality diagnostic images.
Prerequisites: BIO 203, BIO 207, BIO 208, and CHM 101 with minimum grades of "C", and Reading Proficiency
Corequisites: DHY 150, DHY 152, DHY 154, DHY 155, DHY 157, DHY 158, and DHY 159

**DHY 157. Oral Anatomy. 2 Credit Hours.**
Oral Anatomy introduces dental hygiene students to the macroscopic and microscopic structures of the teeth, oral cavity, and associated perioral anatomy. The course includes the identification and classification of primary, mixed, and permanent dentitions, as well as anatomical variations and occlusal relationships. Students learn techniques for oral inspection, documentation, and dental charting. The course also introduces the dental caries process and foundational histologic features of oral tissues.
Prerequisites: BIO 203, BIO 207, BIO 208, and CHM 101 with minimum grades of "C", and Reading Proficiency
Corequisites: DHY 150, DHY 152, DHY 154, DHY 155, DHY 156, DHY 158, and DHY 159

**DHY 158. Biomedical Science for the Dental Hygienist. 2 Credit Hours.**
Biomedical Science for the Dental Hygienist introduces dental hygiene students to fundamental concepts of human anatomy, physiology, pathophysiology, microbiology, and immunology as they relate to oral and systemic health. The course focuses on selected conditions of the cardiovascular, respiratory, immune, nervous, and endocrine systems, emphasizing how these conditions influence dental hygiene care, patient evaluation, and treatment planning. Students learn to assess patient risk, recognize systemic disease manifestations in the oral cavity, and determine necessary treatment modifications to ensure safe and effective patient care.
Prerequisites: BIO 203, BIO 207, BIO 208, and CHM 101 with minimum grades of "C", and Reading Proficiency
Corequisites: DHY 150, DHY 152, DHY 154, DHY 155, DHY 156, DHY 157, and DHY 159

**DHY 159. Dental Medical Emergencies. 1 Credit Hour.**
Dental Medical Emergencies introduces the principles of risk management in the care of medically compromised dental patients. The course emphasizes the prevention, recognition, and management of medical emergencies that may occur in the dental office.
Prerequisites: BIO 203, BIO 207, BIO 208, and CHM 101 with minimum grades of "C", and Reading Proficiency
Corequisites: DHY 150, DHY 152, DHY 154, DHY 155, DHY 156, DHY 157, and DHY 158

**DHY 160. Concepts in Clinical Dental Hygiene II. 3 Credit Hours.**
Concepts in Clinical Dental Hygiene II is the continuation and further development of content from Concepts in Clinical Dental Hygiene I: Pre-Clinic. Emphasis is placed on didactic information regarding the clinician's assessment of the patient's medical status and dental conditions for the dental hygiene diagnosis and care plans, including patient education. Introduction to powered instrumentation theory and technique, dental stains and their removal, as well as fluoride therapies as a preventive measure for patients and the community are included.
Prerequisites: DHY 150, DHY 152, DHY 154, DHY 155, DHY 156, DHY 157, DHY 158, and DHY 159 with minimum grades of "C", and Reading Proficiency
Corequisites: DHY 162, DHY 164, DHY 167, and DHY 168

**DHY 162. Clinical Dental Hygiene II. 5 Credit Hours.**
Clinical Dental Hygiene II marks the student’s first clinical experience with patient care, emphasizing the application of dental hygiene theories, principles, and responsibilities appropriate to the student’s current level of knowledge. Under faculty supervision, students provide care to patients of varying age groups presenting with healthy gingiva or early periodontal involvement. The course focuses on developing clinical instrumentation skills introduced in Clinical Dental Hygiene I: Pre-Clinic, while integrating knowledge from didactic coursework. Students also participate in off-site clinical observations to broaden their understanding of interdisciplinary care. Professionalism and ethical practice continue to be emphasized throughout the course.
Prerequisites: DHY 150, DHY 152, DHY 154, DHY 155, DHY 156, DHY 157, DHY 158, and DHY 159 with minimum grades of "C", and Reading Proficiency
Corequisites: DHY 160, DHY 164, DHY 167, and DHY 168

**DHY 164. Periodontics II. 2 Credit Hours.**
Periodontics II builds upon foundational knowledge of the healthy periodontium and gingival diseases by focusing on the diagnosis and management of periodontal diseases, particularly periodontitis. The course emphasizes comprehensive periodontal assessment, risk factor identification, nonsurgical periodontal therapy, dental hygiene interventions, and periodontal maintenance strategies. Basic concepts of periodontal surgery and dental implants are introduced to support interdisciplinary collaboration and referral decision-making.
Prerequisites: DHY 150, DHY 152, DHY 154, DHY 155, DHY 156, DHY 157, DHY 158, and DHY 159 with minimum grades of "C", and Reading Proficiency
Corequisites: DHY 160, DHY 162, DHY 167, and DHY 168

**DHY 167. Anatomy and Embryology of the Head & Neck. 3 Credit Hours.**
Anatomy and Embryology of the Head and Neck explores the gross anatomy and embryological development of head and neck structures relevant to dental hygiene practice. The course emphasizes the anatomy of the skull, neck, tongue, oropharynx, temporomandibular joint, and associated anatomical variations and disorders. Students study the skeletal, muscular, vascular, nervous, lymphatic, and glandular systems, with particular focus on cranial nerves, muscles of mastication and facial expression, and anatomy critical for dental anesthesia. Topics also include pathways of infection spread and principles for preventing tissue injury during dental procedures.
Prerequisites: DHY 150, DHY 152, DHY 154, DHY 155, DHY 156, DHY 157, DHY 158, and DHY 159 with minimum grades of "C", and Reading Proficiency
Corequisites: DHY 160, DHY 162, DHY 164, and DHY 168

**DHY 168. General and Oral Pathology. 2 Credit Hours.**
General and Oral Pathology explores the basic principles of general pathology, including the causes and mechanisms of disease, inflammation, immune responses, and tissue repair. The course emphasizes oral pathology, focusing on the recognition and description of common oral diseases and lesions, as well as oral manifestations of systemic conditions. Students learn to identify normal and abnormal oral findings, understand disease progression, and apply this knowledge to patient assessment and dental hygiene care.
Prerequisites: DHY 150, DHY 152, DHY 154, DHY 155, DHY 156, DHY 157, DHY 158, and DHY 159 with minimum grades of "C", and Reading Proficiency
Corequisites: DHY 160, DHY 162, DHY 164, and DHY 167

**DHY 172. Clinical Dental Hygiene: Summer Clinic. 1 Credit Hour.**
Clinical Dental Hygiene: Summer Clinic provides dental hygiene students with continued clinical experience in delivering patient care under faculty supervision. Emphasis is placed on applying theories, principles, procedures, and instrumentation learned in previous courses to comprehensive patient assessment, treatment planning, preventive and therapeutic services, patient management, and ethical practice. Students build upon competencies established in Clinical Dental Hygiene II, developing higher proficiency in clinical skills, critical thinking, patient safety, and professional conduct.
Prerequisites: DHY 160, DHY 162, DHY 164, DHY 167, and DHY 168 with minimum grades of "C", and Reading Proficiency
Corequisites: DHY 273

**DHY 250. Concepts in Clinical Dental Hygiene III. 2 Credit Hours.**
Concepts in Clinical Dental Hygiene III introduces additional clinical dental hygiene procedures including advanced periodontal instrumentation and skills to further develop the assessment and implementation of the dental hygiene diagnosis and treatment plan. The course introduces theories and principles for the use of adjunctive technologies, including air polishers, pulp vitality testing, and contemporary periodontal therapies. Topics include periodontal surgery, dentinal hypersensitivity, tooth whitening, tobacco cessation, and dental implant maintenance.
Prerequisites: DHY 172 and DHY 273 with minimum grades of "C", and Reading Proficiency
Corequisites: DHY 252, DHY 257, DHY 258, and DHY 259

**DHY 252. Clinical Dental Hygiene III. 6 Credit Hours.**
Clinical Dental Hygiene III provides advanced experience in delivering comprehensive dental hygiene care in both clinical and community settings. Students integrate advanced clinical skills, including periodontal instrumentation, adjunctive therapies, and the use of dental materials into patient treatment. Emphasis is placed on comprehensive patient assessment, treatment planning, evidence-based decision making, and the management of complex cases. Students will also develop proficiency in specialized techniques such as air polishing, power instrumentation, application of desensitizing agents, impression taking, study model fabrication, and tobacco cessation counseling.
Prerequisites: DHY 172 and DHY 273 with minimum grades of "C", and Reading Proficiency
Corequisites: DHY 250, DHY 257, DHY 258, and DHY 259

**DHY 257. Dental Materials. 2 Credit Hours.**
Dental Materials introduces fundamental principles of dental biomaterials, including mechanical and chemical adhesion, physical and chemical properties, and identification of various restorative and preventive materials used in patient care. Students gain knowledge of proper manipulation techniques for impression materials, gypsum products, and restorative materials. Emphasis is placed on safety protocols, critical evaluation of materials, and clinical relevance. Clinical application and use of these materials will occur concurrently in DHY 252 Clinical Dental Hygiene III.
Prerequisites: DHY 172 and DHY 273 with minimum grades of "C"; Current CPR-Basic Life Support with AED Certification and Reading Proficiency
Corequisites: DHY 250, DHY 252, DHY 258, and DHY 259

**DHY 258. Dental Pharmacology. 2 Credit Hours.**
Dental Pharmacology introduces pharmacology which can be defined as the science of drugs. Within pharmacology is an interrelationship of biomedical sciences, including biochemistry, physiology, and pathology. This course will provide a study of pharmaceutical classifications, properties, and effects. Emphasis is given to the systemic effects of drugs and their dental implications in the management of various medical conditions. (Credit is only allowed for either DHY 258 or DHY 228.)

Prerequisites: DHY 172 and DHY 273 with minimum grades of "C"; Current CPR-Basic Life Support with AED Certification, and Reading Proficiency

**DHY 259. Dental Nutrition and Biochemistry. 2 Credit Hours.**
Dental Nutrition and Biochemistry provides an overview of essential nutrients and their roles in systemic and oral health, emphasizing the impact of nutrition on the development, maintenance, and prevention of oral diseases across the lifespan. Major topics include metabolism of macro- and micronutrients, biochemistry of nutrient utilization, dietary assessment, food analysis, and preventive nutritional counseling for oral health.
Prerequisites: DHY 172 and DHY 273 with minimum grades of "C", and Reading Proficiency
Corequisites: DHY 250, DHY 252, DHY 257, and DHY 258

**DHY 260. Concepts IV: Ethics, Professionalism, and Practice Transition in Dental Hygiene. 2 Credit Hours.**
Concepts IV: Ethics, Professionalism, and Practice Transition in Dental Hygiene prepares students for professional entry into dental hygiene practice through the study of ethics, legal regulations, and career transition skills. Students explore ethical theories, principles, and values, with emphasis on the American Dental Hygienists' Association (ADHA) Code of Ethics and ethical decision-making in patient care. Additional topics include care considerations for patients with special health needs such as cancer, mandatory reporting of suspected child abuse, quality assurance, and current legislative trends. The course also develops practical skills for career readiness, including résumé and portfolio development, interviewing strategies, and preparation for national and regional board examinations.
Prerequisites: DHY 250, DHY 252, DHY 257, DHY 258, and DHY 259 with minimum grades of "C", and Reading Proficiency
Corequisites: DHY 262 and 263

**DHY 262. Clinical Dental Hygiene IV. 5 Credit Hours.**
Clinical Dental Hygiene IV emphasizes the delivery of comprehensive dental hygiene care in both campus and community-based settings. Students apply advanced principles of assessment, instrumentation, critical thinking, and professionalism while demonstrating increased independence and clinical decision-making. Emphasis is placed on ethical care, safe practice, and service learning in preparation for entry into professional practice.
Prerequisites: DHY 250, DHY 252, DHY 257, DHY 258, and DHY 259 with minimum grades of "C", and Reading Proficiency
Corequisites: DHY 260 and DHY 263

**DHY 263. Dental Public Health. 2 Credit Hours.**
Dental Public Health prepares students to promote oral health and prevent disease at the community level, viewing the community as the patient. The course examines the history, economics, and organization of dental public health systems, both in the United States and globally. Topics include epidemiology, biostatistics, health care delivery systems, dental public health program planning, and critical evaluation of dental literature. Students design and participate in a community service project to apply public health principles in real-world settings.
Prerequisites: DHY 250, DHY 252, DHY 257, DHY 258, and DHY 259 with minimum grades of "C", and Reading Proficiency
Corequisites: DHY 260 and DHY 262

**DHY 273. Pain Control. 3 Credit Hours.**
Pain Control covers the theory and clinical application of pain management interventions within the scope of dental hygiene practice. The course addresses the physiology, psychology, and pharmacology of pain, with emphasis on prevention, recognition, and management of adverse reactions. Students learn the safe and ethical administration of local anesthesia and nitrous oxide-oxygen conscious sedation, focusing on anatomical landmarks, evidence-based techniques, and patient-centered care. Clinical practice includes administering local anesthesia and nitrous oxide-oxygen sedation to peers to prepare for clinical patients. Competency testing is required for successful completion and licensure eligibility.
Prerequisites: DHY 160, DHY 162, DHY 164, DHY 167, DHY 168 with minimum grades of "C"; Current CPR-Basic Life Support with AED Certification, and Reading Proficiency
Corequisites: DHY 172

**DHY 290. Dental Hygiene Skills Review. 1 Credit Hour.**
Dental Hygiene Skills Review is an independent study that provides review and remediation of dental hygiene skills for currently enrolled students and those re-entering the Dental Hygiene Program. The course is offered on an as-needed basis and is arranged through individual student-faculty contracts.
Prerequisites: Enrollment in the Dental Hygiene Program within the past 12 months or current enrollment in the program, and Reading Proficiency

# Diagnostic Medical Sonography (DMS)

## Course Descriptions

**DMS 103. Ultrasound Physics and Instrumentation I. 2 Credit Hours.**
Ultrasound Physics and Instrumentation I examines the basic physical principles and instrumentation of ultrasound, and the interactions of sound and matter.
Prerequisites: Entry into the Diagnostic Medical Sonography program and Reading Proficiency

**DMS 104. Ultrasound Physics and Instrumentation II. 3 Credit Hours.**
Ultrasound Physics and Instrumentation II addresses principles of ultrasound instrumentation, Doppler analysis, acoustic artifacts, quality assurance and safety, and advanced ultrasound technologies.
Prerequisites: DMS 103 with a minimum grade of "C" and Reading Proficiency

**DMS 105. Medical Sonography I. 3 Credit Hours.**
Medical Sonography I examines the normal anatomy and pathology of the liver, gallbladder, pancreas, and female pelvis.
Prerequisites: Entry into the Diagnostic Medical Sonography program and Reading Proficiency

**DMS 106. Medical Sonography Scanning Techniques I. 2 Credit Hours.**
Medical Sonography Scanning Techniques I introduces concepts of sonographic evaluation including gray-scale and Doppler of the abdomen, soft tissues and female pelvis. Students will perform basic scanning procedures and familiarize themselves with anatomy. (Credit is only allowed for either DMS 105 and DMS 106, or ULT 101.)
Prerequisites: Entry into the Diagnostic Medical Sonography program and Reading Proficiency

**DMS 107. Medical Sonography Practicum I. 1 Credit Hour.**
Medical Sonography Practicum I introduces conduction of routine scanning protocols including gray-scale and Doppler patterns of the abdomen, soft tissues, female pelvis, and obstetrics and gynecology. Students are placed in a clinical setting under the supervision of a registered abdomen and/or OB/GYN sonographer. (Credit is only allowed for either DMS 107 or ULT 102.)
Prerequisites: Entry into the Diagnostic Medical Sonography program and Reading Proficiency

**DMS 108. Medical Sonography II. 3 Credit Hours.**
Medical Sonography II examines the sonographic appearance of all the trimesters of pregnancy and urinary system. Students evaluate pathophysiologic findings, clinical history, and typical sonographic findings related to disease in all trimesters of pregnancy and the urinary system.
Prerequisites: DMS 105 with a minimum grade of "C" and Reading Proficiency

**DMS 109. Medical Sonography Scanning Techniques II. 2 Credit Hours.**
Medical Sonography Scanning Techniques II implements laboratory demonstration and performance of standard protocols for the urinary system and all trimesters of pregnancy including grey scale, color Doppler, and pulse wave of the anatomy. Students practice protocols to prepare for clinical rotations.
Prerequisites: DMS 106 with a minimum grade of "C" and Reading Proficiency

**DMS 110. Medical Sonography Clinical Applications. 3 Credit Hours.**
Medical Sonography Clinical Applications incorporates a review of abnormal abdominal, obstetric, and gynecologic sonographic examinations in order to further develop the critical thinking skills required to correlate the clinical history, clinical signs and symptoms, and results of other diagnostic tests with the results of the sonographic examination.
Prerequisites: DMS 105 with a minimum grade of "C" and Reading Proficiency

**DMS 111. Medical Sonography Practicum II. 3 Credit Hours.**
Medical Sonography Practicum II requires the clinical performance of abdominal, obstetric, and gynecologic procedures, under the supervision of a registered sonographer including all trimesters of pregnancy, gynecology, and abdomen.
Prerequisites: DMS 107 with a minimum grade of "C" and Reading Proficiency

**DMS 112. Cardiac Sonography I. 3 Credit Hours.**
Cardiac Sonography I examines the normal anatomy, pathology, and hemodynamics of the cardiac system related to cardiac sonography.
Prerequisites: Entry into the Diagnostic Medical Sonography program and Reading Proficiency

**DMS 113. Cardiac Sonography Scanning Techniques I. 2 Credit Hours.**
Cardiac Sonography Scanning Techniques I introduces concepts of sonographic evaluation including gray-scale, M-mode, and Doppler of the cardiac system. Students will perform basic transthoracic scanning procedures and familiarize themselves with anatomy.
Prerequisites: Entry into the Diagnostic Medical Sonography program and Reading Proficiency

**DMS 114. Cardiac Sonography Practicum I. 1 Credit Hour.**
Cardiac Sonography Practicum I introduces conduction of routine scanning protocols including gray-scale, M-mode, Doppler, and hemodynamic patterns of the cardiac system. Students are placed in a clinical setting under the supervision of a registered cardiac sonographer.
Prerequisites: Entry into the Diagnostic Medical Sonography program and Reading Proficiency

**DMS 115. Cardiac Sonography II. 3 Credit Hours.**
Cardiac Sonography II examines the sonographic appearance of common acquired and congenital conditions of the adult heart. Students evaluate hemodynamics, pathophysiologic findings, clinical history, and typical sonographic findings related to various disease states.
Prerequisites: DMS 112 with a minimum grade of "C" and Reading Proficiency

**DMS 116. Cardiac Sonography Scanning Techniques II. 2 Credit Hours.**
Cardiac Sonography Scanning Techniques II implements laboratory demonstration and performance of standard protocols for cardiac sonograms, including grey scale, Doppler, and M-mode. Students practice protocols to prepare for clinical rotations.
Prerequisites: DMS 113 with a minimum grade of "C" and Reading Proficiency

**DMS 117. Cardiac Sonography Clinical Applications. 3 Credit Hours.**
Cardiac Sonography Clinical Applications reviews normal and abnormal cardiac sonographic examinations. It develops critical thinking skills to correlate clinical history, signs and symptoms, and results from other diagnostic tests with sonographic findings.
Prerequisites: DMS 112 with a minimum grade of "C" and Reading Proficiency

**DMS 118. Cardiac Sonography Practicum II. 3 Credit Hours.**
Cardiac Sonography Practicum II requires the clinical performance of routine scanning protocols including gray-scale, M-mode, Doppler, hemodynamic patterns, and pathology of the cardiac system. Students are placed in a clinical setting under the supervision of a registered cardiac sonographer.
Prerequisites: DMS 114 with a minimum grade of "C" and Reading Proficiency

**DMS 119. Vascular Technology I. 3 Credit Hours.**
Vascular Technology I examines the normal anatomy, pathology, and hemodynamics of the cardiovascular system including the extracranial cerebrovascular system as well as the upper and lower extremities. Additional emphasis will be on perfusion and function of these anatomical systems.
Prerequisites: Entry into the Diagnostic Medical Sonography program and Reading Proficiency

**DMS 120. Vascular Technology Scanning Techniques I. 2 Credit Hours.**
Vascular Technology Scanning Techniques I introduces concepts of sonographic evaluation including grey scale, color Doppler, and pulse wave of the cerebrovascular and cardiovascular systems. Students will perform basic scanning procedures and familiarize themselves with anatomy.
Prerequisites: Entry into the Diagnostic Medical Sonography program and Reading Proficiency

**DMS 121. Vascular Technology Practicum I. 1 Credit Hour.**
Vascular Technology Practicum I introduces conduction of routine scanning protocols including hemodynamic patterns of the extracranial cerebrovascular system and the upper and lower extremities. Students are placed in a clinical setting under the supervision of a registered sonographer.
Prerequisites: Entry into the Diagnostic Medical Sonography program and Reading Proficiency

**DMS 122. Vascular Technology II. 3 Credit Hours.**
Vascular Technology II examines the sonographic appearance of aortoiliac and renal vasculature which includes hemodynamic concepts. Students will evaluate pathophysiologic findings, clinical history, and typical sonographic findings related to disease of the aortoiliac and renal vasculature.
Prerequisites: DMS 119 with a minimum grade of "C" and Reading Proficiency

**DMS 123. Vascular Technology Scanning Techniques II. 2 Credit Hours.**
Vascular Technology Scanning Techniques II implements laboratory demonstration and performance of standard protocols for aortoiliac and renal vasculature sonograms including grey scale, color Doppler, and pulse wave of the anatomy. Students will practice protocols to prepare for clinical rotations.
Prerequisites: DMS 120 with a minimum grade of "C" and Reading Proficiency

**DMS 125. Vascular Technology Practicum II. 3 Credit Hours.**
Vascular Technology Practicum II requires the clinical performance of vascular procedures under the supervision of a registered sonographer including aortoiliac and renal vasculature. Students will learn hemodynamic patterns of vasculature.
Prerequisites: DMS 121 with a minimum grade of "C" and Reading Proficiency

**DMS 126. Introduction to Vascular Sonography. 3 Credit Hours.**
Introduction to Vascular Sonography addresses normal sectional anatomy, hemodynamics, patient assessment and diagnostic testing related to Vascular Technology. An introduction to clinical applications will include the pathophysiologic basis, clinical signs and symptoms and typical findings related to the most common vascular examinations.
Prerequisites: Current enrollment in the Cardiac learning concentration, Diagnostic Medical Sonography program or permission of the program director, and Reading Proficiency

**DMS 127. Introduction to Sonography. 3 Credit Hours.**
Introduction to Sonography includes general pathology, ultrasound terminology, clinical laboratory tests, diagnostic procedures, patient interview techniques, medical chart review, and patient care principles. In addition, the course covers topics including professional interaction skills, professional codes of conduct, scopes of practice, pertinent legal principles, administrative procedures, and trends in healthcare systems. (Credit is only allowed for DMS 127 or DMS 101 and DMS 102.)
Prerequisites: Entry into the Diagnostic Medical Sonography program and Reading Proficiency

**DMS 128. Introduction to Vascular Sonography Scanning Techniques. 1 Credit Hour.**
Introduction to Vascular Sonography Scanning Techniques addresses laboratory demonstrations and student performance of standard vascular protocols for the most common venous and arterial examinations, with emphasis on recognition of normal gray scale and Doppler patterns.
Prerequisites: Current enrollment in the Cardiac learning concentration, Diagnostic Medical Sonography program or permission of the program director and Reading Proficiency

**DMS 129. Fundamentals of Medical Sonography Scanning and Knobology. 1 Credit Hour.**
Fundamentals of Medical Sonography Scanning and Knobology introduces concepts of sonographic evaluation including gray-scale and Doppler of the abdomen and soft tissue anatomy. Students perform basic sonographic procedures and familiarize themselves with the coinciding anatomy.
Prerequisites: Entry into the Diagnostic Medical Sonography program and Reading Proficiency

**DMS 130. Introduction to Medical and Cardiac Sonography. 3 Credit Hours.**
Introduction to Medical and Cardiac Sonography addresses normal sectional anatomy, hemodynamics, patient assessment, and diagnostic testing related to abdominal and cardiac sonography. An introduction to clinical applications will include the pathophysiologic basis, clinical signs and symptoms, and typical findings related to the most common abdominal and cardiac examinations.
Prerequisites: DMS 127 with a minimum grade of "C" and Reading Proficiency

**DMS 131. Fundamentals of Cardiac Sonography Scanning and Knobology. 1 Credit Hour.**
Fundamentals of Cardiac Sonography Scanning and Knobology introduces concepts of sonographic evaluation including gray-scale, M-mode, and Doppler of the ventricles, atria, and valves. Students perform basic sonographic procedures and familiarize themselves with the coinciding anatomy.
Prerequisites: Entry into the Diagnostic Medical Sonography program and Reading Proficiency

**DMS 133. Fundamentals of Vascular Sonography Scanning and Knobology. 1 Credit Hour.**
Fundamentals of Vascular Sonography Scanning and Knobology introduces concepts of sonographic evaluation including gray-scale and Doppler of the arterial and venous system. Students perform basic sonographic procedures and familiarize themselves with the anatomy.
Prerequisites: Entry into the Diagnostic Medical Sonography program and Reading Proficiency

**DMS 201. Ultrasound Physics and Instrumentation III. 2 Credit Hours.**
Ultrasound Physics and Instrumentation III addresses quality assurance procedures, biological effects, 3-D ultrasound applications and a general review in preparation for the certification examinations in physics and instrumentation.
Prerequisites: DMS 104 with a minimum grade of "C" or permission of the program director and Reading Proficiency

**DMS 202. Medical Sonography III. 4 Credit Hours.**
Medical Sonography III examines normal anatomy, function, pathology, and hemodynamics of the thyroid, breast, and scrotum.
Prerequisites: DMS 108 with a minimum grade of "C" and Reading Proficiency

**DMS 203. Medical Sonography Practicum III. 2 Credit Hours.**
Medical Sonography III is a continuation of clinical experience involving scanning of abdominal, obstetrics, and gynecology, including the first, second, and third trimester fetus, as well as the abdominal organs. Students are under the guidance of a registered Sonographer.
Prerequisites: DMS 111 with a minimum grade of "C" and Reading Proficiency

**DMS 204. Medical Sonography IV. 4 Credit Hours.**
Medical Sonography IV prepares students for the certification examination in Abdomen and Obstetrics and Gynecology. Students examine the sonography appearance of pathologies related to second and third trimester fetal ultrasounds.
Prerequisites: DMS 202 with a minimum grade of "C" and Reading Proficiency

**DMS 206. Medical Sonography Practicum IV. 3 Credit Hours.**
Medical Sonography Practicum IV requires students to complete all clinical competency requirements for the specialty of Abdomen and Obstetrics and Gynecology, including all trimesters of pregnancy, abdominal organs, and soft tissues. Students are guided by a registered sonographer.
Prerequisites: DMS 203 with a minimum grade of "C" and Reading Proficiency

**DMS 207. Cardiac Sonography III. 4 Credit Hours.**
Cardiac Sonography III examines the normal anatomy, pathology, and hemodynamics of the heart as it pertains to fetal and pediatric echocardiography. In addition, common and rare congenital conditions of the heart are covered.
Prerequisites: DMS 115 with a minimum grade of "C" and Reading Proficiency

**DMS 208. Cardiac Sonography Practicum III. 2 Credit Hours.**
Cardiac Sonography Practicum III is a continuation of clinical experience, focusing on the application of common and advanced cardiac sonography techniques, including the assessment of pathology. Students are placed in a clinical setting under the supervision of a registered cardiac sonographer.
Prerequisites: DMS 118 with a minimum grade of "C" and Reading Proficiency

**DMS 209. Cardiac Sonography IV. 4 Credit Hours.**
Cardiac Sonography IV prepares students for the certification examination in adult cardiac sonography. Students examine the sonographic appearance of therapeutic interventions, intraoperative monitoring, and the use of ultrasound contrast agents of the cardiac system.
Prerequisites: DMS 207 with a minimum grade of "C" and Reading Proficiency

**DMS 211. Cardiac Sonography Practicum IV. 3 Credit Hours.**
Cardiac Sonography Practicum IV requires students to complete all clinical competency requirements for the specialty of Cardiac Sonography, including basic, advanced, pathology, and final evaluation categories. Students are placed in a clinical setting under the supervision of a registered cardiac sonographer.
Prerequisites: DMS 208 with a minimum grade of "C" and Reading Proficiency

**DMS 212. Vascular Technology III. 4 Credit Hours.**
Vascular Technology III examines the normal anatomy, function, pathology, and hemodynamics of the cerebrovascular and cardiovascular systems including abdominal Doppler applications.
Prerequisites: DMS 122 with a minimum grade of "C" and Reading Proficiency

**DMS 213. Vascular Technology Practicum III. 2 Credit Hours.**
Vascular Technology Practicum III is a continuation of clinical experience involving scanning of vascular sonography including mesenteric, intracranial cerebrovascular system, and hepatoportal vasculature. Students are under the guidance of a registered sonographer.
Prerequisites: DMS 125 with a minimum grade of "C" and Reading Proficiency

**DMS 214. Vascular Technology IV. 4 Credit Hours.**
Vascular Technology IV will prepare students for the certification examination in Vascular Technology. Students will examine the sonographic appearance of therapeutic interventions, intraoperative monitoring, and the use of ultrasound contrast agents of the cardiovascular and cerebrovascular systems.
Prerequisites: DMS 212 with a minimum grade of "C" and Reading Proficiency

**DMS 215. Vascular Technology Clinical Applications. 3 Credit Hours.**
Vascular Technology Clinical Applications incorporates a review of abnormal vascular sonographic examinations in order to further develop the critical thinking skills required to correlate the clinical history, clinical signs and symptoms, and results of other diagnostic tests with the results of the sonographic examination.
Prerequisites: DMS 212 with a minimum grade of "C" and Reading Proficiency

**DMS 216. Vascular Technology Practicum IV. 3 Credit Hours.**
Vascular Technology Practicum IV requires students to complete all clinical competency requirements for the specialty of Vascular Technology including the extracranial and intracranial cerebrovascular system, aortoiliac, upper extremity, lower extremity, and abdominal anatomy. Students will be guided by a registered sonographer.
Prerequisites: DMS 213 with a minimum grade of "C" and Reading Proficiency

**DMS 217. Professional Development in Sonography. 1 Credit Hour.**
Professional Development in Sonography explores topics in the field of Medical, Cardiac, and Vascular Sonography. These topics include current trends in the imaging profession, career options, the importance of continuing education to the profession, and professional traits of a registered Sonographer.
Prerequisites: DMS 127 with a minimum grade of "C" and Reading Proficiency

# Diesel Technology (DIE)

## Course Descriptions

**DIE 100. Introduction to Diesel Technology. 3 Credit Hours.**
Introduction to Diesel Technology introduces the student to current shop and personal safety, tools and equipment, chemicals and adhesives, and repair/information systems used in the industry. Emphasis will be on computer-based service information systems; identification and proper use of tools and equipment used in the industry; training for safety and pollution; measurement in both metric and U.S. systems; identification of fasteners, threads, pitches, sizes, and proper applications; and adhesive and chemical usage.
Prerequisites: MTH 020 with a grade of "C" or better, or satisfactory score on placement test, and Reading Proficiency or concurrent enrollment in RDG 079

**DIE 101. Diesel Engine Operation and Repair. 3 Credit Hours.**
Diesel Engine Operation and Repair is the study of the theories of operation, construction, maintenance, diagnosis, disassembly, and assembly of the diesel engine and its supporting systems, including lubrication system, cooling system, and engine brakes. (Credit is only allowed for either DIE 101 or AUT 505.)
Prerequisites: DIE 100 with a minimum grade of "C" and Reading Proficiency

**DIE 102. Medium/Heavy Truck Suspension and Steering. 3 Credit Hours.**
Medium/Heavy Truck Suspension and Steering is the study of the types of suspension and steering systems found on medium and heavy trucks. Emphasis will be in areas of steering gears and columns, power steering systems, suspension system types and components, wheel alignment diagnosis, wheel and tire diagnosis and repair, truck frame types and repair, and trailer connection devices.
Prerequisites: DIE 100 with a minimum grade of "C" and Reading Proficiency

**DIE 103. Medium/Heavy Truck Electricity. 3 Credit Hours.**
Medium/Heavy Truck Electricity examines through practical application the theories of basic electricity and the diagnostic equipment used to perform general electrical system diagnosis of medium and heavy trucks. Subsystems covered include batteries, charging systems, lighting systems, starting systems, and wiring. (Credit is only allowed for either DIE 103 or AUT 506.)
Prerequisites: Reading Proficiency
Corequisites: DIE 100

**DIE 105. Diesel Fuel Systems. 3 Credit Hours.**
Diesel Fuel Systems is the study of the theories of operation, construction, maintenance, and service of diesel engine fuel systems, including air induction, exhaust systems, mechanical fuel injection systems, and electronic fuel injection systems.
Prerequisites: DIE 100, DIE 101, and DIE 107 with minimum grades of "C"; and Reading Proficiency

**DIE 106. Medium/Heavy Truck Brakes. 3 Credit Hours.**
Medium/Heavy Truck Brakes is the study of the types of brake systems found on medium and heavy trucks. Emphasis will be in areas of air brakes, hydraulic brakes, foundation brakes, parking brakes, anti-lock brakes, and power brakes.
Prerequisites: DIE 100 with a minimum grade of "C" and Reading Proficiency

**DIE 107. Medium/Heavy Truck Electronics. 3 Credit Hours.**
Medium/Heavy Truck Electronics examines through practical application the theories of electronics and diagnostic equipment used to perform general electronic system diagnosis and repair of medium and heavy truck gauge and warning devices, electronic fuel injection, and electrical accessories.
Prerequisites: DIE 103 with a minimum grade of "C" and Reading Proficiency

**DIE 201. Preventive Maintenance Inspection. 3 Credit Hours.**
Preventive Maintenance Inspection examines through practical application the areas of inspection and maintenance on medium and heavy trucks to include engine, fuel system, cooling system, lubrication system, cab and hood, electrical, drive train, brakes, and tires and wheels.
Prerequisites: DIE 100 with a minimum grade of "C" and Reading Proficiency

**DIE 202. Co-op Work Experience I-Diesel Technology. 3 Credit Hours.**
Co-op Work Experience I-Diesel Technology is a cooperative education work experience at a truck or bus repair facility which allows students to apply skills learned in diesel technology courses. Students will also learn new skills and explore employment possibilities while supervised by employer. The course requires a minimum of 150 hours of working.
Prerequisites: DIE 102, DIE 106, and DIE 107 with minimum grades of "C"; and Reading Proficiency
Corequisites: DIE 205

**DIE 203. Truck Heating, Ventilation, and Air Conditioning. 3 Credit Hours.**
Truck Heating, Ventilation, and Air Conditioning is the study of the types of air conditioning, heating, and ventilation systems found on medium and heavy trucks. Emphasis will be in the areas of system diagnosis, component repair, refrigerant recovery, recycling, and handling.
Prerequisites: DIE 100 with a minimum grade of "C" and Reading Proficiency

**DIE 204. Service and Parts Management. 3 Credit Hours.**
Service and Parts Management introduces the student to current management practices of parts and service departments in modern truck repair shops. Shop operations, design, equipment, and safety will also be emphasized. Workplace employability skills will be emphasized.
Prerequisites: Reading Proficiency

**DIE 205. Co-op Work Experience II - Diesel Technology. 3 Credit Hours.**
Co-op Work Experience II- Diesel Technology is a cooperative education work experience at a truck or bus repair facility which allows students to apply skills learned in diesel technology courses. Students will also learn new skills and explore employment possibilities while supervised by employer. The course requires a minimum of 150 hours of working.
Prerequisites: Reading Proficiency
Corequisites: DIE 202

**DIE 206. Medium/Heavy Truck Drivetrains. 3 Credit Hours.**
Medium/Heavy Truck Drivetrains examines through practical application the types of manual and automatic transmission drivetrains found on medium and heavy trucks to include the repair of clutches, drive shafts, universal joints, and drive axles.
Prerequisites: DIE 100 with a minimum grade of "C" and Reading Proficiency

# Economics (ECO)

## Course Descriptions

**ECO 140. Introduction to Economics (MOTR ECON 100). 3 Credit Hours.**
Introduction to Economics is a study of basic economic concepts, institutions, and policies, (both macroeconomics and microeconomics) necessary for a general understanding of the economy. Students who intend to transfer to a business administration program should take the two-course undergraduate sequence in Economics, ECO 151 and ECO 152, instead of ECO 140.
Prerequisites: Concurrent enrollment in MTH 140S, or placement into MTH 140, MTH 160, or MTH 185, and Reading Proficiency

**ECO 151. Principles of Macroeconomics (MOTR ECON 101). 3 Credit Hours.**
Principles of Macroeconomics presents an introductory description and analysis of economics from a national perspective. Included are the basic concepts relating to the demand and supply model, macroeconomic data, trends and fluctuations in macroeconomic variables, simple models of the macroeconomy, fiscal and monetary policy, and economic growth.
Prerequisites: Concurrent enrollment in MTH 140S, or placement into MTH 140, MTH 160 or MTH 185, and Reading Proficiency

**ECO 152. Principles of Microeconomics (MOTR ECON 102). 3 Credit Hours.**
Principles of Microeconomics develops tools and models to explore the behavior of individuals and firms. The course develops the demand and supply model to examine outcomes in both output and input markets, explores market failures, compares behaviors in competitive and noncompetitive markets, examines the economic concept of cost, and uses comparative advantage to explain both local and international trade.
Prerequisites: Concurrent enrollment in MTH 140S, or placement into MTH 140, MTH 160, or MTH 185, and Reading Proficiency

# Education (EDU)

## Course Descriptions

**EDU 210. Teaching Profession with Field Experience. 3 Credit Hours.**
Teaching Profession with Field Experience includes an introductory, minimum 36 hours of school field experience in accredited P-12 classrooms that provide opportunities to observe and contribute to teaching and learning. This course allows preservice teachers to connect firsthand school experience with an emerging professional knowledge base. The course develops professional knowledge of diverse educational settings through observation, instruction, experience, and reflection. This course is designed to assist students in determining if a career in teaching is an appropriate goal. Requirements for teacher preparation and certification are reviewed. (Credit is allowed for only one of the following courses: EDU 210, EDU 200, or EDU 220.)
Prerequisites: ENG 101 with a minimum grade of "C" and Reading Proficiency

**EDU 211. Foundations of Education. 3 Credit Hours.**
Foundations of Education is designed to examine education practice from diverse historical, philosophical, sociological, economic, and legal perspectives. The course will address issues of educational equity, sociocultural influences on teaching and learning, and how teachers and schools can contribute to interpersonal and intercultural understanding and respect. Students will explore the nature of school environments, the fundamental goals of education in the American public school, English Language Learners, the relationship between school and a diverse society, the organization of school curricula, and characteristics of effective schools and instruction in grades P-12.
Prerequisites: ENG 101 with a minimum grade of "C" and Reading Proficiency

**EDU 218. Educational Technology. 3 Credit Hours.**
Educational Technology students will learn how to integrate instructional technology into P-12 classrooms. Students will study a variety of software programs, presentation technology, telecommunication tools, and assistive technology. The focus will also be on social, ethical, legal, and human issues surrounding the use of technology. (Credit is only allowed for either EDU 218 or EDU 102.)
Prerequisites: ENG 101 with a minimum grade of "C" and Reading Proficiency

**EDU 219. Education of Exceptional Learners. 3 Credit Hours.**
Education of Exceptional Learners is an introduction to exceptional learners and their education in grades P-12. Students will gain a comprehensive understanding of the characteristics of people with special needs in addition to strategies of educating and including all learners in general education and special education settings. Students will research and discuss complex issues related to compliance with state and federal education laws, such as the Individuals with Disabilities Educational Act (IDEA) and the Americans with Disabilities Act (ADA) as well learn to navigate special education processes, such as referral, eligibility, re-evaluation, and IEPs. This course requires a 15-hour special education field experience component. (Credit is only allowed for either EDU 219 or EDU 215.)
Prerequisites: EDU 211 with a minimum grade of "C" and Reading Proficiency

**EDU 226. Children's Literature. 3 Credit Hours.**
This course will familiarize students with examples of good children's books, for children from infancy to adolescence. It will also help students develop the ability to evaluate a book, analyze its appeal, and present it effectively. (Same course as ENG 226.)
Prerequisites: Reading Proficiency

**EDU 227. Educational Psychology. 3 Credit Hours.**
Educational Psychology is designed to help students relate theories and principles of educational psychology to teaching, learning, and assessment. This course focuses on the variety of learners and learning processes, as well as teacher characteristics, classroom strategies, and data analysis in P-12 classrooms. Appropriate strategies for increasing motivation, multi-dimensional development, and academic achievement for all learners are introduced. (Credit is only allowed for either EDU 227 or EDU 217.)
Prerequisites: EDU 210 and PSY 203, PSY 205 or PSY 214 with minimum grades of a "C" and Reading Proficiency

**EDU 228. Multicultural Education. 3 Credit Hours.**
Multicultural Education is designed to examine the multicultural context of education and prepare students to understand and teach learners from a variety of backgrounds, with individual characteristics, and with differing social identities. The course will address meeting the individual needs of students, sociocultural influences on teaching and learning, and how teachers and schools can contribute to interpersonal development.
Prerequisites: ENG 101 with a minimum grade of "C" and Reading Proficiency

# Electrical/Electronic Engineering Technology (EE)

## Course Descriptions

**EE 132. Electronic Devices. 5 Credit Hours.**
Electronic Devices introduces theory, characteristics, and applications of most of the basic electronic devices used in industry. Basic practical circuits will be presented to reinforce the theory.
Prerequisites: EE 134 with a minimum grade of "C" and Reading Proficiency

**EE 134. Electric Circuits. 6 Credit Hours.**
Electric Circuits emphasizes basic direct current (DC) circuit configurations, components, and calculations. Content continues with introductory alternating current (AC) circuits and calculations, oscilloscope overview, and transformers. Troubleshooting concepts are addressed along with the theory content. Laboratory experiments reinforce topics.
Prerequisites: MTH 140 (or MTH 140S) with a minimum grade of "C" or equivalent placement test scores or department approval and Reading Proficiency

**EE 151. Motor Control Fundamentals. 4 Credit Hours.**
Motor Control Fundamentals is a practical, hands-on class, centered on the study and application of motor control and power devices and circuits. This course studies control components such as relays, pushbuttons, sensors, contactors, and overload relays and power devices such as motors, transformers, and solenoids. The course emphasizes developing skills to be able to read, write, speak, and troubleshoot basic electro-mechanical motor control circuits. Safe work habits are emphasized throughout the course.
Prerequisites: Reading Proficiency

**EE 207. Industrial Instrumentation and Process Control. 3 Credit Hours.**
Industrial Instrumentation and Process Control covers the study of instrumentation technology, temperature, pressure, flow, and analytical measurement devices. Proportional, Integral, and Derivative (PID) control, along with current loops and calibration, are discussed and applied in the lab. The course emphasizes the on-the-job knowledge and skills required to troubleshoot and maintain modern process control systems.
Prerequisites: MTH 140 or MTH 140S or MTH 160S with a minimum grade of "C" or placement into MTH 160, and Reading Proficiency
Recommended Preparation: EE 134

**EE 235. Electronic Communications. 4 Credit Hours.**
The fundamental theory and application of communications circuits and devices. The study of radar fundamentals, transmission lines, and electromagnetic interference will be included. Additional lab hours required.
Prerequisites: EE 132 with a minimum grade of "C" and Reading Proficiency

**EE 236. Introduction to Programmable Logic Controllers. 3 Credit Hours.**
Introduction to Programmable Logic Controllers presents the fundamentals of ladder logic used in modern industrial controllers. Basic elements such as timers, counters, and sequencers are studied, as well as traditional methods of applying them to machine control. Students will program and perform laboratory experiments with programmable logic controllers.
Prerequisites: Reading Proficiency

**EE 252. Motion Control Fundamentals. 3 Credit Hours.**
Motion Control Fundamentals introduces the student to the methods and equipment used to program, configure, and troubleshoot, solid state AC and DC drive systems, closed loop servo drives, and motion control systems. Topics include the effective use of test equipment, variable speed drive applications and configuration, various approaches to troubleshooting drive systems, servo systems, an overview of electrical motor theory, position, and speed feedback devices, and closed loop control. Safe work habits are emphasized throughout the course.
Prerequisites: EE 134 with a minimum grade of "C" and Reading Proficiency

# Emergency Medical Technology (EMT)

## Course Descriptions

**EMT 119. Emergency Medical Technician Emergency Medical Skills. 1 Credit Hour.**
Emergency Medical Technician Emergency Medical Skills provides the student with hands-on instruction in the skills necessary to function as an emergency medical technician, such as patient assessment, airway maintenance, Cardiopulmonary Resuscitation, and stabilization of injuries.
Prerequisites: Reading Proficiency
Corequisites: EMT 121 and EMT 123

**EMT 121. Emergency Care, Principles, and Techniques. 8 Credit Hours.**
Emergency Care, Principles, and Techniques is a course that meets all the current requirements for Missouri State Emergency Medical Technician Basic (EMT-B) licensure. It includes the assessment and care of the sick and injured, pediatric and geriatric emergencies, childbirth, defibrillation, lifting and movement of patients, hazardous material situations, and the use of adjunctive Emergency Medical Services (EMS) equipment.
Prerequisites: Reading Proficiency
Corequisites: EMT 119 and EMT 123

**EMT 123. Emergency Medical Technician Clinical I. 1 Credit Hour.**
Emergency Medical Technician Clinical I provides the student the opportunity to observe a minimum of 60 hours at ambulance and hospital facilities. Students will be given the opportunity to demonstrate basic life saving skills (ex. performing cardiopulmonary resuscitation (CPR), basic airway management, bleeding control, and splinting of extremities). Students will be performing basic medical and trauma assessments while utilizing proper personal protective equipment (PPE) on live patients.
Prerequisites: Reading Proficiency
Corequisites: EMT 119 and EMT 121

# Engineering Graphics (EGR)

## Course Descriptions

**EGR 100. Engineering Drawing. 3 Credit Hours.**
Engineering Drawing uses a combination of instruments and CAD systems for making drawings. The course includes the use of instruments, lettering, geometrical constructions, technical sketching, principles of orthographic projection, pictorial drawing, descriptive geometry, sectional views and conventions, auxiliary views, and dimensioning.
Prerequisites: Reading Proficiency or concurrent enrollment in RDG 079

**EGR 133. Introduction to AutoCAD I. 2 Credit Hours.**
Introduction to AutoCAD I covers the fundamentals of the AutoCAD drafting system. Students will learn how to create drawings, setup units, limits, layers, linetypes, and colors. Drawing procedures for typical geometric operations are covered. Special features operations including polylines, blocks, dimensioning, cross-hatching, and plotting are also covered.
Prerequisites: Reading Proficiency

**EGR 141. Introduction to AutoCAD II. 2 Credit Hours.**
Introduction to AutoCAD II is a continuation of Introduction to AutoCAD I (EGR 133). Topics include Blocks, attributes, symbol libraries, bill of material extraction, screen and tablet menus, digitizing drawings, slides and slide shows. This course will also introduction to 3-D modelling languages.
Prerequisites: EGR 133 with a minimum grade of "C" and Reading Proficiency

**EGR 230. Introduction to Revit. 4 Credit Hours.**
Introduction to Revit will provide instruction using Revit software for building information modeling (BIM) for architecture. Instruction will focus on how both graphic and non-graphic architectural information for a building is produced through the creation of a single project database represented in a 3D model. (Credit is only allowed for either EGR 230 or ARC 124.)
Prerequisites: Reading Proficiency

# Engineering Science (ESC)

## Course Descriptions

**ESC 100. Engineering Computer Applications and Design. 3 Credit Hours.**
Engineering Computer Applications and Design provides the student with basic skills in the use of Computer Aided Drafting (CAD), word-processing, spreadsheets, and computer math software. This course focuses on solving engineering problems through teamwork approaches. Students will learn to conceptualize problems, develop solutions, and present reports.
Prerequisites: MTH 140 (or MTH 140S) or higher with a minimum grade of "C" and Reading Proficiency

**ESC 101. Scientific Computer Programming. 3 Credit Hours.**
Scientific Computer Programming emphasizes instruction in computer programming language to solve engineering problems. Instruction will include such topics as the study of digital computer systems, programming techniques, program structure, coding, execution, debugging, and verification of programs. Computer programming exercises will be conducted to analyze, interpret, and synthesize engineering data. (Credit is only allowed for either ESC 101 or GE 176.)
Prerequisites: MTH 160 (or MTH 160S) or higher with a minimum grade of "C" and Reading Proficiency

**ESC 200. Engineering Circuits I. 4 Credit Hours.**
Engineering Circuits I is a problem-solving course that develops analytical skills important for all engineering disciplines as well as fundamental circuit theory for electrical engineers. The course covers circuit elements and the fundamental laws governing their behavior, network theorems, and analysis techniques, including transient responses. Circuit simulation using computer models and practical circuit testing are included in the laboratory work. (Credit is only allowed for either ESC 200 or EE 275.)
Prerequisites: PHY 122 with a minimum grade of "C", concurrent or prior enrollment in MTH 230 with a minimum grade of "C", and Reading Proficiency

**ESC 203. Engineering Statics. 3 Credit Hours.**
Engineering Statics is the application of the principles of statics to the solution of engineering problems involving particles and systems in equilibrium. Topics include force systems in equilibrium, centers of gravity, friction, and moments of inertia. Vector analysis techniques will be used where appropriate. (Credit is only allowed for either ESC 203 or ME 275.)
Prerequisites: PHY 122 with a minimum grade of "C" and Reading Proficiency

**ESC 204. Engineering Dynamics. 3 Credit Hours.**
Engineering Dynamics is the application of the principles of dynamics to the solution of engineering problems involving particle and rigid body motion. Topics include linear motion, curvilinear relative motion, energy, impulse, and momentum. Vector methods are used where appropriate. (Credit is only allowed for either ESC 204 or ME 277.)
Prerequisites: ESC 203 with a minimum grade of "C" and Reading Proficiency

**ESC 205. Mechanics of Materials. 3 Credit Hours.**
Mechanics of Materials is the application of principles of mechanics to engineering problems of strength and stiffness. Topics include stress, strain, thin cylinders, beams, torsion, columns, and combined stresses at a point. (Credit is only allowed for either ESC 205 or ME 278.)
Prerequisites: ESC 203 with a minimum grade of "C" and Reading Proficiency

**ESC 206. Strength of Materials Lab. 1 Credit Hour.**
Strength of Materials Lab is the laboratory component of the Mechanics of Materials course (ESC 205). Students will perform tension, compression, shear, torsion, bending, and hardness tests on various materials in a materials testing laboratory. Students are introduced to formal lab report writing including data presentation, analysis, and drawing conclusions. (Credit is only allowed for either ESC 206 or ME 279.)
Prerequisites: ESC 205 with a minimum grade of "C" and Reading Proficiency

**ESC 207. Engineering Thermodynamics. 3 Credit Hours.**
Engineering Thermodynamics is the study of energy transformations and the relation of energy to the states of matter. The primary focus is on the fundamental laws of thermodynamics and the concepts of analysis of energy conversion and how they are applied in engineering situations. (Credit is only allowed for either ESC 207 or ME 280.)
Prerequisites: MTH 230 and PHY 223 with minimum grades of "C", and Reading Proficiency

# English (ENG)

## Course Descriptions

**ENG 030. Foundations of College Writing. 3 Credit Hours.**
Foundations of College Writing is designed primarily to prepare students for College Composition I. The course develops students' abilities in writing multiple paragraph texts and will focus on topics such as development, organization, grammar, sentences, paragraphs, and essay structure.

**ENG 079. Co-Requisite College Composition Skills. 3 Credit Hours.**
Co-Requisite College Composition Skills primarily focuses on supporting the development of writing techniques, developing effective writing styles, writing processes, revision practices, and analytical skills needed for success in English 101.
Corequisites: ENG 101

**ENG 101. College Composition I (MOTR ENGL 100). 3 Credit Hours.**
College Composition I focuses on the development of writing techniques. Students will develop effective writing styles, writing processes, revision practices, and analytical skills.
Prerequisites: Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079

**ENG 102. College Composition II (MOTR ENGL 200). 3 Credit Hours.**
College Composition II builds on knowledge and skills learned in ENG 101 and primarily focuses on argumentative and persuasive writing techniques. Students will develop effective writing processes, writing styles, research abilities, analytical skills, and argumentative tools. (Credit is only allowed for either ENG 102 or ENG 105.)
Prerequisites: ENG 101 with a minimum grade of "C" and Reading Proficiency

**ENG 103. Report Writing (MOTR ENGL 110). 3 Credit Hours.**
Report Writing builds on knowledge and skills learned in previous writing courses and primarily focuses on the development of writing techniques required in fields such as business, health science, technology, and engineering. Students will develop effective writing styles, writing processes, and analytical skills for business and technical writing.
Prerequisites: ENG 101 with a minimum grade of "C" and Reading Proficiency

**ENG 110. Creative Writing (MOTR PERF 106). 3 Credit Hours.**
Creative Writing is designed to illustrate the creative process and value of creative literature, including three of the following genres: poetry, fiction, drama, and creative nonfiction. Students learn about various themes, perspectives, and approaches associated with creative writing, as well as the creative writing process and methods of submitting creative work for publication.
Prerequisites: ENG 101 with a minimum grade of "C" and Reading Proficiency

**ENG 201. Introduction to Fiction (MOTR LITR 100F). 3 Credit Hours.**
Introduction to Fiction provides students with an understanding of short and long fiction. Students have the opportunity to study various forms and styles of fiction as well as the major themes and concepts presented within this genre.
Prerequisites: ENG 101 with a minimum grade of "C" and Reading Proficiency

**ENG 202. Introduction to Poetry and Plays (MOTR LITR 100). 3 Credit Hours.**
Introduction to Poetry and Plays is an introductory survey of major works of poetry and drama. Special attention is given to literary terminology and critical analysis. By reading, analyzing, and discussing various works, the student will gain a familiarity with the statements and craft of a diverse selection of American, European, African, and Oriental poems and plays.
Prerequisites: Reading Proficiency

**ENG 205. American Literature II (MOTR LITR 101B). 3 Credit Hours.**
American Literature II provides a survey of American literature from the Civil War to the present. This course includes the topics of literary criticism, textual reception, as well as historical and cultural context. Various authors and genres will be included.
Prerequisites: ENG 101 with a minimum grade of "C" and Reading Proficiency

**ENG 214. Contemporary Literature. 3 Credit Hours.**
This course is a study of representative works of literature produced within the last thirty years with an emphasis on recent and developing literary trends and forms alongside an investigation of the culture and values of contemporary society. Geographical focus varies from semester to semester as does the choice of literary genres.
Prerequisites: ENG 101 with a minimum grade of "C" and Reading Proficiency

**ENG 216. Women in Literature (MOTR LITR 106). 3 Credit Hours.**
Women in Literature explores the experiences of women as authors and characters in local, national, and international literature. Topics and reading will focus on the roles, challenges, and contributions women have made in the area of literary studies in various contexts and communities.
Prerequisites: ENG 101 with a minimum grade of "C" and Reading Proficiency

**ENG 217. Major Black Writers (MOTR LITR 105AA). 3 Credit Hours.**
Major Black Writers focuses on selected literary works by Black writers across the African Diaspora. Students have the opportunity to examine various literary works, forms, and styles of these writers and the various contexts in which they are placed.
Prerequisites: ENG 101 with a minimum grade of "C" and Reading Proficiency

**ENG 224. Fiction Writing (MOTR PERF 106F). 3 Credit Hours.**
Fiction Writing is intended for students to further develop their understanding of fiction and their abilities in narrative writing. Students learn about various themes, perspectives, and approaches associated with fiction, as well as the creative writing process and methods of submitting creative work for publication.
Prerequisites: ENG 101 with a minimum grade of "C" and Reading Proficiency

**ENG 225. Poetry Writing (MOTR PERF 106P). 3 Credit Hours.**
Poetry Writing is intended for students to further develop their understanding of poetry and their abilities in poetry writing. Students learn about various themes, perspectives, and approaches associated with poetry, as well as the creative writing process and methods of submitting creative work for publication.
Prerequisites: ENG 101 with a minimum grade of "C" and Reading Proficiency

**ENG 226. Children's Literature. 3 Credit Hours.**
This course will familiarize students with examples of good children's books, for children from infancy to adolescence. It will also help students develop the ability to evaluate a book, analyze its appeal, and present it effectively. (Same course as EDU 226.)
Prerequisites: Reading Proficiency

**ENG 228. Studies in Literature. 3 Credit Hours.**
This course allows students to study specific themes, theories, genres, movements, perspectives, or historical periods within the contexts of literature. Literary topics and genres vary from semester to semester. This course may be retaken for credit with different topics. Please refer to the Interactive Course Schedule for current course topics.
Prerequisites: ENG 101 with a minimum grade of "C" and Reading Proficiency

**ENG 231. World Literature (MOTR LITR 200). 3 Credit Hours.**
World Literature offers an introduction to the classic writings organized around various national communities. Its geographical focus varies from semester to semester, as do its choices of literary genres. Students will learn how to read and analyze national writers and their works within historical and cultural contexts.
Prerequisites: ENG 101 with a minimum grade of "C" and Reading Proficiency

**ENG 234. Literary Publishing. 3 Credit Hours.**
Literary Publishing allows students to gain experience in the production practices of literary publications. Students will become exposed to various stages of the editing and publishing process as well as utilize design software to produce a literary publication. (Credit is only allowed for either ENG 234 or ENG 591 and ENG 592.)
Prerequisites: ENG 101 with a minimum grade of "C" and Reading Proficiency

# English Multilingual Learners (EML)

## Course Descriptions

**EML 050. Listening and Speaking for Multilingual Learners I. 3 Credit Hours.**
Listening and Speaking for Multilingual Learners I is designed for non-native speakers of English who need to develop listening and speaking skills to prepare for college-level courses. Students improve their ability to communicate and be understood, gain familiarity with phonemes, word stress, intonation patterns, articulation, and vowel sounds in English, and use these skills in discussions, short talks, and presentations. In addition, students listen to short spoken passages from a variety of disciplines, speeches, and short talks with an emphasis on beginning note-taking strategies and techniques as well as models for spoken English.
Prerequisites: Recommendation of ESL/EML faculty

**EML 051. English Grammar for Multilingual Learners I. 3 Credit Hours.**
English Grammar for Multilingual Learners I provides students with a review of basic English grammar rules and structures, with attention given to word order, sentence boundaries, and verb tenses, including their form, meaning, and use. Students learn and apply these rules through speaking, writing, and other relevant activities.
Prerequisites: Recommendation of ESL/EML faculty or concurrent or prior enrollment in EML 050 with a minimum grade of "C"

**EML 052. Reading and Writing for Multilingual Learners of English I. 6 Credit Hours.**
Reading and Writing for Multilingual Learners of English I is for non-native speakers of English who need to develop the academic English language skills necessary for success in college-level courses. Instruction in the course promotes a focus on introducing and developing English language competence in college-level academic reading, writing, and vocabulary.
Prerequisites: Recommendation of ESL/EML faculty or concurrent or prior enrollment in EML 051 with a minimum grade of "C"

**EML 060. Listening and Speaking for Multilingual Learners II. 3 Credit Hours.**
Listening and Speaking for Multilingual Learners II provides language learners with an opportunity to focus on listening and note-taking skills in the college classroom. The class focuses on vocabulary acquisition, listening to lectures, classroom discussion strategies, oral presentations, and exposure to college content from a variety of disciplines.
Prerequisites: Recommendation of ESL/EML faculty or EML 052 with a minimum grade of "C"

**EML 061. English Grammar for Multilingual Learners II. 3 Credit Hours.**
English Grammar for Multilingual Learners II provides language learners with a review of English grammar, including verbs and sentence structure. Special attention is given to the clauses and sentence types found in academic English and required in college-level writing.
Prerequisites: Recommendation of ESL/EML faculty or concurrent or prior enrollment in EML 060 with a minimum grade of "C"

**EML 062. Reading and Writing for Multilingual Learners of English II. 6 Credit Hours.**
Reading and Writing for Multilingual Learners of English II is designed for English learners who have demonstrated general fluency in reading and writing English and need to develop clarity in using English for academic purposes. The course prepares students to conduct themed database research, research writing, article reading, and summary writing.
Prerequisites: Recommendation of ESL/EML faculty or concurrent or prior enrollment in EML 061 with a minimum grade of "C"

**EML 071. English Grammar for Multilingual Learners III. 3 Credit Hours.**
English Grammar for Multilingual Learners III improves the grammatical accuracy in learners' written English. The course provides students with intensive reinforcement and practice of structures taught in previous grammar courses. Students apply accurate grammar in their own essays by implementing editing strategies.
Prerequisites: Recommendation of ESL/EML faculty or EML 062 with a minimum grade of "C"

**EML 072. Reading and Writing for Multilingual Learners of English III. 3 Credit Hours.**
Reading and Writing for Multilingual Learners of English III facilitates English learners' performance in college-level courses. The class focuses on improving reading comprehension and grammatical and lexical accuracy in a variety of writing tasks. This course prepares students to improve the speed and accuracy of academic writing, as well as the sophistication of grammar structures and vocabulary.
Prerequisites: Recommendation of ESL/EML faculty or concurrent or prior enrollment in EML 071 with a minimum grade of "C"

**EML 073. Composition Support for Multilingual Learners of English. 3 Credit Hours.**
Composition Support for Multilingual Learners of English supports English learners' performance in College Composition I. The course focuses on improving the speed and accuracy of academic writing, as well as the sophistication of grammar structures and vocabulary.
Prerequisites: Recommendation of ESL/EML faculty or concurrent or prior enrollment in EML 071 with a minimum grade of "C"
Corequisites: ENG 101

# Finance (FIN)

## Course Descriptions

**FIN 100. Personal Finance. 3 Credit Hours.**
This course involves the study of personal financial planning and is intended to provide the student with a basis of knowledge that will enable the individual to better manage their income while maximizing the value received for the expenditures made. This course also addresses the safeguarding of assets and will provide the student with the tools for developing their own financial plan. Topics may include financial planning, developing personal financial statements and plans, insurance needs, basic taxing theories, and stock market options for personal financial planning.
Prerequisites: Reading Proficiency

**FIN 201. Fundamentals of Finance. 3 Credit Hours.**
Basic methods and principles of finance, such as money and banking, financing working capital and fixed capital needs, stocks and bonds, the marketing of securities, and the working of financial institutions.
Prerequisites: ACC 110 with a minimum grade of "C" or department approval and Reading Proficiency

# French (FRE)

## Course Descriptions

**FRE 101. Elementary French I (MOTR LANG 101). 4 Credit Hours.**
Elementary French I is a beginning course that presents sentence structure and vocabulary needed to communicate in basic French conversations. Students also learn about the culture of France and other French-speaking nations as they practice listening, speaking, reading, and writing in French.
Prerequisites: Reading Proficiency

**FRE 102. Elementary French II (MOTR LANG 102). 4 Credit Hours.**
Elementary French II is a continuation of Elementary French I. The course expands vocabulary and grammar, and encourages communication in French using present and past tenses. Students learn about the culture of France and other French-speaking countries as they practice listening, reading, writing, and speaking in French.
Prerequisites: FRE 101 with a minimum grade of "C" or 2 years of high school French and Reading Proficiency

**FRE 201. Intermediate French I. 4 Credit Hours.**
Intermediate French I is a continuation of Elementary French II, where students will review and build grammar and vocabulary to enhance comprehension and communication. A variety of literary and cultural selections are presented to reinforce the student's understanding of global/intercultural themes.
Prerequisites: FRE 102 with a minimum grade of "C" or three years of high school French and Reading Proficiency

# Funeral Service Education (FSE)

## Course Descriptions

**FSE 101. History and Sociology of Funeral Service. 3 Credit Hours.**
History and Sociology of Funeral Service surveys funeral and burial customs associated with the beliefs and practices in various cultures from the early Egyptians to present day. In addition, the general principles related to customs, religions, human relations, social behavior, and their influences on funeral practices are examined.
Prerequisites: Reading Proficiency

**FSE 102. Dynamics of Grief Management. 3 Credit Hours.**
Dynamics of Grief Management explores the topic of funeral service psychology, which includes the theories of grief, the purposes of the funeral rite, and the importance of interpersonal communication skills and basic helping techniques.
Prerequisites: Reading Proficiency

**FSE 103. Funeral Directing. 3 Credit Hours.**
Funeral Directing introduces the primary duties and responsibilities of the funeral director. Special emphasis is placed on the funeral director's role in working with the family of the decedent, as they select options for funeral rites, ceremonies, and committal services. Legal and ethical obligations, as well as the value of effective communication skills, are also examined.
Prerequisites: Reading Proficiency

**FSE 104. Funeral Directing Practicum. 2 Credit Hours.**
Funeral Directing Practicum is a course that introduces the practical aspects of funeral home operations, which includes local, state, and federal laws as they pertain to funeral service. In addition, students will participate in funeral arranging, funeral directing, and committal service procedures. All funeral directing functions will be performed under the direct supervision of a licensed funeral director and the St. Louis Community College Funeral Service Education faculty. Additional practicum hours may be required.
Prerequisites: Reading Proficiency
Corequisites: FSE 103

**FSE 105. Funeral Directing Practicum II. 2 Credit Hours.**
This course is a continuation of Funeral Directing Practicum I and will provide additional experience with the practical aspects of funeral home operations, which includes local, state, and federal laws as they pertain to funeral service. In addition, students will participate in funeral arranging, funeral directing, and committal service procedures. All funeral directing functions will be performed under the direct supervision of a licensed funeral director and the St. Louis Community College Funeral Service Education faculty. Additional hours required.
Prerequisites: FSE 103 and FSE 104 with minimum grades of "C" and Reading Proficiency

**FSE 106. Mortuary Law and Ethics. 3 Credit Hours.**
Mortuary Law and Ethics introduces legal and ethical issues in the funeral service profession. This includes the sources of business law, mortuary law, rights and duties regarding disposition of dead bodies, state and federal regulation of funeral homes, funeral directors and cemeteries, probate law, and funeral professional ethics.
Prerequisites: Reading Proficiency

**FSE 107. Funeral Service Merchandising. 2 Credit Hours.**
Funeral Service Merchandising introduces the practical aspects of product knowledge and merchandising for caskets, outer burial containers, and other related funeral service merchandise.
Prerequisites: Reading Proficiency

**FSE 115. Fundamentals of Embalming Chemistry. 2 Credit Hours.**
Fundamentals of Embalming Chemistry provides a survey of the basic principles of chemistry as they relate to funeral service education program. Emphasis is placed on selected aspects of general chemistry, organic chemistry, and biochemistry. Topics covered include states of matter, classification of matter, solutions, structures of organic compounds, and properties of biochemical compounds. Students will obtain the prerequisite chemical knowledge needed for advancement to Advanced Embalming Chemistry.
Prerequisites: Reading Proficiency

**FSE 201. Funeral Home Management. 3 Credit Hours.**
Funeral Home Management introduces management principles for funeral home operations. This includes human resources, financial, marketing, facilities, and office management as well as their application to the small business environment.
Prerequisites: Reading Proficiency

**FSE 203. Embalming Practicum I. 2 Credit Hours.**
Embalming Practicum I applies the theoretical aspects of an embalming operation. All embalming operations are performed under the direct supervision and instruction of a licensed embalmer and the St. Louis Community College Funeral Service Education faculty.
Prerequisites: BIO 103 with a minimum grade of "C" and Reading Proficiency
Corequisites: FSE 210

**FSE 205. Embalming Practicum II. 2 Credit Hours.**
Embalming Practicum II applies the theoretical aspects of an embalming operation, with emphasis placed on advanced procedures for embalming autopsy and trauma cases. Embalming operations are performed under the direct supervision and instruction of a licensed embalmer and St. Louis Community College Funeral Service Education personnel.

# Game and Interactive Design (GID)

## Course Descriptions

**GID 101. Introduction to Game and Interactive Design. 3 Credit Hours.**
Introduction to Game and Interactive Design examines the history, theory, and practice of game and interactive design, with emphasis on play as both a cultural phenomenon and a design methodology. Students explore analog and digital games and interactive media through critical analysis and introductory design activities. Topics include the evolution of games, core design principles, systems thinking, player experience, narrative and visual language, ethics, accessibility, and cultural impact. The course establishes a foundation for analyzing and communicating interactive experiences in preparation for further study in game and interactive design.
Prerequisites: Reading Proficiency

# General Engineering (GE)

## Course Descriptions

**GE 101. Technical Computer Applications. 3 Credit Hours.**
Technical Computer Applications is an introduction to the use of personal computers. Topics of this course include PC hardware, operating systems, word processing, spreadsheets, presentation software, computer aided design, and the Internet.
Prerequisites: Reading Proficiency

**GE 131. Engineering Technology Orientation. 1 Credit Hour.**
Engineering Technology Orientation introduces students to college-level thinking skills, interpersonal skills, effective study skills, and college services necessary for academic and professional success in engineering technology. Students will also be exposed to career opportunities and responsibilities in various fields of technology.
Prerequisites: Reading Proficiency

**GE 135. Blueprint Reading for Engineering Technicians. 2 Credit Hours.**
Blueprint Reading for Engineering Technicians covers mechanical drawings, electrical drawings, and electrical schematics and introduces Geometric Dimensioning and Tolerancing (GDT). Topics include reading specifications from the drawing, understanding basic symbols, and interpreting the drawings for producing parts.
Prerequisites: Reading Proficiency

**GE 140. Industrial Occupations Fundamentals. 3 Credit Hours.**
Industrial Occupations Fundamentals teaches students concepts tied to basic skills within the manufacturing industry. Topics include measurement systems, measurement tools, and basic calculations in mechanical and electrical applications. Safety in the workplace and professional skills are introduced.
Prerequisites: Reading Proficiency

**GE 141. OSHA 10. 1 Credit Hour.**
OSHA 10 introduces basic safety and health information to entry-level workers in general industry occupations. Occupational Safety and Health Administration (OSHA) general industry training covers a wide range of occupational hazards, including risks related to walking and working surfaces, materials handling, bloodborne pathogens, fires, and machinery. Students completing this course will receive the OSHA 10 card.
Prerequisites: Reading Proficiency

**GE 240. Product Design and Fabrication. 4 Credit Hours.**
Product Design and Fabrication presents students with a real-world engineering design challenge. Engineering technology students from a variety of disciplines work together to define problems, evaluate possible solutions, and build a functional prototype.
Prerequisites: ME 151 or EE 134 or EGR 100 or ME 111 with minimum grades of "C" or department approval, and Reading Proficiency

**GE 290. Workplace Learning: General Engineering. 1-6 Credit Hours.**
Workplace Learning: General Engineering provides the student the opportunity to apply theory and skills learned in the classroom, learn new skills, and explore career possibilities while supervised by a professional in the field and a faculty member. Students will observe and participate in the functions of the industry to enhance their preparation for entering the field. Minimum 50 hours per credit hour in the workplace throughout the term.
Prerequisites: Department approval and Reading Proficiency

# Geography (GEG)

## Course Descriptions

**GEG 101. Regional Geography (MOTR GEOG 101). 3 Credit Hours.**
Regional Geography surveys various world regions, their major countries, and the physical, cultural, economic, and political roles of these countries within the global family of nations. This course introduces the discipline of geography and promotes an understanding of the world, its different people, places, and regions. The course examines technological innovations, the spread of political/economic ideologies, and contemporary global problems.
Prerequisites: Reading Proficiency or concurrent enrollment in RDG 079

**GEG 103. Physical Geography (MOTR GEOG 100). 3 Credit Hours.**
Physical Geography introduces the characteristics of the Earth's surface and the interaction of processes that produce a world pattern of distinctive environments significant to humanity. Topics include Earth surface processes and the development of landforms and landscapes, weather and climate, soils and vegetation, and their global distribution.
Prerequisites: Reading Proficiency

# Geology (GEO)

## Course Descriptions

**GEO 100. Earth Science (MOTR PHYS 110ES). 3 Credit Hours.**
Earth Science is an introductory geoscience course that emphasizes basic principles of astronomy, geology, oceanography, and meteorology. Topics covered include the origin of the Universe, solar system, and Earth; minerals and rocks; plate tectonics; geologic time; prehistoric life and evolution; ocean structure and life; and weather and climate change.
Prerequisites: Reading Proficiency or concurrent enrollment in RDG 079

**GEO 101. Earth Science Laboratory (MOTR PHYS 110LES). 1 Credit Hour.**
Earth Science Laboratory is an inquiry-based course that includes introductory laboratory exercises in astronomy, geology, oceanography, and meteorology. A field trip to a geological site is a requirement of this course.
Prerequisites: Concurrent or prior enrollment in GEO 100 with a minimum grade of "C" and Reading Proficiency

**GEO 103. Environmental Geology (MOTR GEOL 100). 3 Credit Hours.**
Environmental Geology is an introductory geoscience course that focuses on natural hazards and the human consequences associated with geologic processes. Topics include the study of plate tectonics, earthquakes, volcanoes, floods, tornadoes, storms, wildfires, climate change, and global warming. Emphasis is placed on how those hazards affect humans and how human activity affects the Earth's environment.
Prerequisites: Reading Proficiency

**GEO 104. Prehistoric Life. 3 Credit Hours.**
This course is an introductory Historical Geology course that emphasizes paleontology and evolution through the fossil record. Topics covered include the origin of the Universe, the origin and evolution of Earth through geologic processes, plate tectonics, origin and evolution of life on Earth through four billion years of geologic time and hands-on study of fossils including dinosaurs.
Prerequisites: Reading Proficiency

**GEO 111. Physical Geology (MOTR GEOL 100L). 5 Credit Hours.**
Physical Geology introduces earth processes and products, including the origin of rocks, volcanos, landforms, mountain belts, earthquakes, and the structure of Earth within the framework of plate tectonics. The interdependence between humans and the geological environment is emphasized throughout the course. A one-day field trip is required.
Prerequisites: Reading Proficiency

**GEO 113. Oceanography (MOTR PHYS 110O). 3 Credit Hours.**
Oceanography is an introductory course focusing on the physical, biological, and geological aspects of oceanography. Topics covered include properties of seawater, marine life, plate tectonics, and the relationship between atmosphere and oceans. Special emphasis is placed on worldwide, human-induced changes within the marine environment.
Prerequisites: Reading Proficiency

# Geospatial Technology (GST)

## Course Descriptions

**GST 101. Introduction to Geographic Information Systems (GIS). 3 Credit Hours.**
Introduction to Geographic Information Systems (GIS) is a beginning course in geographic information systems and analysis designed for end users. The course focuses on the industry standard ArcGIS products and their various modules for exploratory research and spatial analysis. The purpose of this course is to introduce students to spatial thinking and awareness, fundamental geographic concepts, and the use of spatial technology as a research tool for problem solving and prediction.
Prerequisites: Reading Proficiency
Recommended Preparation: No previous exposure to GIS or mapping is necessary, however, quantitative reasoning, data management / spreadsheet experience, and solid computer skills are helpful

**GST 102. Introduction to Unmanned Aircraft Systems. 3 Credit Hours.**
Introduction to Unmanned Aircraft Systems introduces students to unmanned aircraft systems of various types and the current legal and ethical issues. Students will also be introduced to operation of sensors, payloads, and simulators. The important topics of sense-and-avoid technologies, human factors, and other safe flight issues will also be covered. The course prepares students for the Part 107 Remote Pilot’s License exam.
Prerequisites: Reading Proficiency
Recommended Preparation: No previous experience with Unmanned Aircraft Systems is necessary, however, ability to read technical writing and some computer skills are helpful

**GST 150. Drone Mission Planning and Photography. 3 Credit Hours.**
Drone Mission Planning and Photography teaches students the techniques and procedures needed to pre-plan and fly Unmanned Aerial Systems (UAS) Drone missions including creating flight logs and pre- and post- mission planning reports. Students plan and execute increasingly challenging missions such as a site survey, inspections, and search and rescue support. Students also gain exposure to basic drone photography and video image processing techniques.
Prerequisites: GST 102 with a minimum grade of "C" or FAA Part 107 license, and Reading Proficiency

**GST 201. Intermediate Geographic Information Systems. 3 Credit Hours.**
Intermediate Geographic Information Systems (GIS) furthers understanding and skills in the industry using GIS products and their various modules for exploratory research and spatial analysis. Students increase their ability to recognize, research, and propose discoveries and solutions to problems germane to geospatial science. Students use vector and raster data. Students explore various extensions of industry GIS software to gain proficiency in selected areas of interest: georeferencing, digitizing, geocoding, hot spot and cluster analysis, spatial statistics, land classification, buffering, distance and area calculation, and/or network analysis.
Prerequisites: GST 101 with a minimum grade of "C" and Reading Proficiency
Recommended Preparation: In addition to general GIS knowledge from Intro to GIS course, quantitative reasoning, data management / spreadsheet experience, and solid computer skills are helpful

**GST 220. Advanced Applications in Geographic Information Systems. 4 Credit Hours.**
Advanced Applications in Geographic Information Systems (GIS) is designed to round out student experience for preparation for professional jobs in GIS. GIS is a field that creates, manages, analyzes, investigates, and problem solves with data that has a spatial component. Professionals who work in GIS require experience with many applications in various software and sources of spatial data. This course provides students with such experience including coding experience, online research experience, and job-related application experience in GIS.
Prerequisites: GST 101 and GST 201 with minimum grades of "C" and Reading Proficiency
Recommended Preparation: Introductory Statistics is highly recommended

# German (GER)

## Course Descriptions

**GER 101. Elementary German I (MOTR LANG 105). 4 Credit Hours.**
Elementary German I is a beginning course that presents sentence structure and vocabulary needed to communicate in basic German conversations. Students also learn about the German culture as they practice listening, speaking, reading, and writing in German.
Prerequisites: Reading Proficiency

**GER 102. Elementary German II (MOTR LANG 106). 4 Credit Hours.**
Elementary German II is a continuation of Elementary German I. The course expands vocabulary and grammar, and encourages communication in German using present and past tenses. Students learn about the culture of Germany as they practice listening, reading, writing, and speaking in German.
Prerequisites: GER 101 with a minimum grade of "C" or 2 or more years of high school German, and Reading Proficiency

**GER 201. Intermediate German I. 4 Credit Hours.**
Intermediate German I is a continuation of Elementary German II. Students review and build grammar and vocabulary to enhance comprehension and communication. A variety of literary and cultural selections are presented to reinforce the student's understanding of global/intercultural themes.
Prerequisites: GER 102 with a minimum grade of "C" and Reading Proficiency

**GER 202. Intermediate German II. 4 Credit Hours.**
A continuation of GER 201. Emphasis is on spoken German with continued grammar review. A variety of short stories and contemporary cultural selections are read and discussed in class. Additional lab hours required.
Prerequisites: GER 201 with a minimum grade of "C" or 4 or more years of high school German and Reading Proficiency

# Global Education (GLE)

## Course Descriptions

**GLE 101. Global Education Studies. 1-3 Credit Hours.**
This course will present an opportunity for students to travel to and to engage in the direct study of international cultures in order to foster an enhanced sensitivity to, appreciation of, and an understanding of the global community.
Prerequisites: Permission of instructor and Reading Proficiency

# Health and Wellness (HW)

**Your participation in an STLCC activity course confirms you are aware of the risks and are physically able to safely participate in class and have no health-related conditions that may affect your ability to participate.**

## Course Descriptions

**HW 101. Foundations of Sport and Exercise Psychology. 3 Credit Hours.**
Foundations of Sport and Exercise Psychology is the scientific study of people and behaviors in sport and exercise. This course explores the relationships between psychological factors and physical activity. Areas of focus will include learning how psychological factors affect an individual's physical performance and understanding how participation in sport and exercise affects a person's psychological development, health, and well-being. (Credit is only allowed for either HW 101 or PED 201.)
Prerequisites: PSY 200 with a minimum grade of "C" and Reading Proficiency

**HW 102. Personal Health and Wellness. 3 Credit Hours.**
Personal Health and Wellness is an introduction to the concept of health as a foundation for positive movement throughout the life cycle. This course explores the relationship between mental, physical, and environmental factors on the development of illness and disease, and the impact of personal behaviors and lifestyle practices on maintaining good health. Course topics will include healthy eating, fitness, sexuality, drugs, disease, stress management, and wellness. (Credit is only allowed for either HW 102 or PE 135.)
Prerequisites: Reading Proficiency

**HW 103. Stress Management. 3 Credit Hours.**
Stress Management includes an overview of stress and its impact on physical, mental, emotional, and spiritual health and wellness. Coping strategies, relaxation techniques, healthy eating behaviors, and physical activities for stress reduction are explored. (Credit is only allowed for either HW 103, PE 161, or PE 276.)
Prerequisites: Reading Proficiency or concurrent enrollment in RDG 079

**HW 104. Wellness and Fitness Concepts. 3 Credit Hours.**
Wellness and Fitness Concepts focuses on the impact physical activity, healthy eating behaviors, weight management, stress management, substance abuse, sexually transmitted diseases, and other relevant topics have on health and wellness. The development of an individualized wellness program enhances understanding of course concepts. Participation in activities associated with improved health and wellness is a component of this course. (Credit is only allowed for either HW 104 or PE 180.)
Prerequisites: Reading Proficiency

**HW 109. First Aid. 2 Credit Hours.**
First Aid provides students with the necessary skills to recognize and appropriately respond to life-threatening emergencies. Instruction will focus on emergency recognition and first aid treatment for sudden illness and injuries, adult cardiopulmonary resuscitation (CPR), and automated external defibrillator (AED). Certification in Adult and Pediatric First Aid/CPR/AED is available for students meeting the requirements. (Credit is only allowed for either HW 109 or PE 129.)

**HW 110. Wellness for the Individual (MOTR IDSE 102). 2 Credit Hours.**
Wellness for the Individual identifies the benefits of developing a lifestyle that promotes mental and physical health. This survey course focuses on the relationship between physical, psychological, and social components of human behavior and their effect on the human body. Students learn how to ensure they are working towards a healthy approach to life both physically and mentally by examining the body systems needed for physical wellness, evaluating dietary choices, and exploring coping strategies that prepare students to remain healthy despite challenges in their lives.
Prerequisites: Reading Proficiency

**HW 111. American Heart Association (AHA) CPR. 1 Credit Hour.**
American Heart Association (AHA) CPR is designed to prepare students in healthcare professions with the skills of basic life support and CPR. Students will learn how to recognize cardiac arrest, give chest compressions, deliver ventilations, and provide early use of an automated external defibrillator (AED) individually and with a partner. Adult, child, and infant rescue techniques including choking will be part of this course. AHA Basic Life Support (BLS) for Healthcare Providers certification is available for those who meet the course requirements. (Credit is only allowed for either HW 111 or PE 220.)
Prerequisites: Reading Proficiency or concurrent enrollment in RDG 079

**HW 112. Archery. 1 Credit Hour.**
Archery is an introductory course that covers the basic procedures for using a bow for target shooting. Topics will include history, safety, terminology, equipment/accessories, correct shooting form, range etiquette, rules, and scoring. Activities will include video instruction, demonstration, and shooting practice. (Credit is only allowed for either HW 112 or PE 104.)

**HW 113. Backpacking. 1 Credit Hour.**
Backpacking is an introduction to the outdoor recreation activities of hiking and camping. Instruction focuses on gear selection, packing, route finding, campsite development, and food preparation, as well as safety, sanitation, and ethics in the outdoors. This course involves weekend hikes and an overnight camping experience on established trails and campgrounds. Students are responsible for their own equipment and transportation to and from the designated locations. (Credit is only allowed for either HW 113 or PE 106.)

**HW 115. Basic Fitness I. 1 Credit Hour.**
Basic Fitness I is an introductory course that focuses on fitness principles and the improvement of cardiorespiratory-neuromuscular development. Physical activities and various anaerobic/aerobic exercises will be performed to enhance strength, muscular endurance, flexibility, and cardiorespiratory fitness. (Credit is only allowed for either HW 115 or PE 109.)

**HW 116. Basic Fitness II. 1 Credit Hour.**
Basic Fitness II focuses on the development of strength and cardiorespiratory fitness. Fitness principles, various types of exercises, and the role of eating patterns are identified to enhance a healthy lifestyle. Focus is on students designing their own workout routines.
Prerequisites: HW 115 with a minimum grade of "C"

**HW 124. Community CPR. 1 Credit Hour.**
Community CPR provides students with the necessary skills to recognize and appropriately respond to life-threatening cardiovascular and breathing emergencies. Instruction will focus on practical application in administering lifesaving techniques for cardiac arrest, and responsive and unresponsive choking victims. Certification in Adult and Pediatric Cardiopulmonary Resuscitation (CPR) and Automated External Defibrillation (AED) is available for students meeting the requirements. (Credit is only allowed for either PE 120 or HW 124.)

**HW 129. Fencing I. 1 Credit Hour.**
Fencing I is an introductory course that focuses on foil fencing. Rules and strategies for competitive fencing will be introduced. Basic skills include attacks and parries. (Credit is only allowed for either HW 129 or PE 126.)

**HW 130. Fencing II. 1 Credit Hour.**
Fencing II is a refinement of techniques learned in Fencing I. Epee and sabre, advanced parries and attacks, and electric equipment are introduced. (Credit is only allowed for either HW 130 or PE 127.)
Prerequisites: HW 129 with a minimum grade of "C"

**HW 131. Fitness Center I. 1 Credit Hour.**
Fitness Center I provides access to equipment designed to develop muscular strength and endurance, cardiorespiratory endurance, and flexibility. Basic concepts of physical activity and exercise are introduced. Active participation in physical activities is required. (Credit is only allowed for either HW 131 or PE 130.)

**HW 132. Fitness Center II. 1 Credit Hour.**
Fitness Center II is a continuation of Fitness Center I with consideration given to concepts of body composition, weight management, and developing a personalized exercise plan. Active participation in self-guided physical activities to improve muscular strength and endurance, cardiorespiratory fitness, and flexibility is required. (Credit is only allowed for either HW 132 or PE 131.)
Prerequisites: HW 131 with a minimum grade of "C"

**HW 140. Pickleball. 1 Credit Hour.**
Pickleball is an introduction to the recreational court game in which players use a paddle to hit a perforated ball over a tennis-type net on a badminton-sized court. Students will focus on the basic rules, physical skills, and strategy for singles and doubles play.

**HW 144. Swimming I. 1 Credit Hour.**
Swimming I is designed to promote comfort in an aquatic environment and to introduce skills and techniques of swimming and basic water safety. Each skill is demonstrated, explained, and evaluated. Strokes taught include front crawl, back crawl, sidestroke, elementary backstroke, breaststroke, and butterfly. (Credit is only allowed for either HW 144 or PE 162.)

**HW 145. Swimming II. 1 Credit Hour.**
Swimming II is an intermediate level course that focuses on drills for stroke refinement in the competitive and recreational strokes. Skill development includes water entries and turns, as well as fitness and survival swimming, elementary rescues, and recreational water games. (Credit is only allowed for either HW 145 or PE 163.)
Prerequisites: HW 144 with a minimum grade of "C"

**HW 150. Total Fitness. 1 Credit Hour.**
Total Fitness is a continuation of Fitness Center II with consideration given to self-directed lifetime fitness for health and well-being. Performance of physical activities is required. Advanced training techniques for improving muscular strength and endurance, cardiorespiratory fitness, and flexibility are explored. (Credit is only allowed for either HW 150 or PE 132.)
Prerequisites: HW 132 with a minimum grade of "C"

**HW 153. Walking for Fitness. 1 Credit Hour.**
Walking for Fitness provides students with an opportunity to participate in walking as a technique to improve health through the development of cardiorespiratory endurance, muscular endurance, and weight management. Students will identify the benefits of consistent participation in fitness walking as well as the types, technique, equipment, and skills necessary for developing and maintaining an appropriate and successful fitness walking program. (Credit is only allowed for either HW 153 or PE 173.)

**HW 155. Weight Training I. 1 Credit Hour.**
Weight Training I is designed to introduce the beginner to a variety of basic weight training skills. Techniques focus on safe execution of weight lifting using pin-select weight equipment and free weights to develop strength, size, endurance, and flexibility of major muscle groups. Circuit training is introduced. (Credit is only allowed for either HW 155 or PE 177.)

**HW 156. Weight Training II. 1 Credit Hour.**
Weight Training II focuses on advanced weight lifting techniques utilizing cable pulley weights and free weights. Advanced level training programs for increased muscular development are designed. Circuit training is utilized. (Credit is only allowed for either PE 178 or HW 156.)
Prerequisites: HW 155 with a minimum grade of "C"

**HW 157. Yoga I. 1 Credit Hour.**
Yoga I is an introduction to yoga which includes basic poses (asanas), breathing techniques, meditation, and yoga philosophy. Active participation in these activities is designed to increase flexibility and balance, strengthen and tone muscles, and energize the body to reduce stress and enhance physical and mental health. (Credit is only allowed for either HW 157 or PE 181.)

**HW 158. Yoga II. 1 Credit Hour.**
Yoga II is a continuation of Yoga I. This course will focus on active participation and emphasis on body and self-awareness while practicing advanced yoga poses, pranayama (controlled breath), and meditation. Performance of these skills and techniques will increase muscle strength and endurance, increase flexibility and balance, improve body posture, reduce stress, and enhance relaxation. (Credit is only allowed for either HW 158 or PE 182.)
Prerequisites: HW 157 with a minimum grade of "C"

# Health Information Management (HIM)

## Course Descriptions

**HIM 101. Medical Terminology and Language. 3 Credit Hours.**
Medical Terminology and Language provides a broad survey of the language of medicine and health terminologies. Students learn to accurately spell and define common medical terms related to major disease processes, diagnostic procedures, laboratory tests, abbreviations, drugs, and treatment modalities. Emphasis is placed on word formation, definition, and correct pronunciation. (Credit is only allowed for either HIM 101 or HIT 101.)
Prerequisites: Reading Proficiency

**HIM 102. Electronic Health Management. 2 Credit Hours.**
Electronic Health Management focuses on using the latest applications in health IT, including electronic health records (EHRs) and applied Meaningful Use. This course offers guidance on developing and implementing health IT systems in Health Information Management (HIM) and Informatics. Interoperability, optimization, and enterprise content management are discussed in broad scopes of health technologies. (Credit is only allowed for either HIM 102 or HIT 211.)
Prerequisites: Reading Proficiency

**HIM 103. Human Diseases and Pharmacology. 3 Credit Hours.**
Human Diseases and Pharmacology studies the human body's common pathological conditions. Drug classifications, dosage and administration, and diagnostic procedures are studied. Course focus is on description of conditions and diseases of the body organ systems including etiology, signs and symptoms, methods of diagnosis, and treatment. Additionally, pronunciation of disease terminology and medications, recognition of common laboratory findings, and significance of abnormal findings in disease processes are studied. (Credit is only allowed for either HIM 103 or HIT 105.)
Prerequisites: Concurrent or prior enrollment in BIO 215 and HIM 102 with minimum grades of "C", and Reading Proficiency

**HIM 104. Health Information and Delivery Systems. 3 Credit Hours.**
Health Information and Delivery Systems introduces students to health data structure, data content, and data integrity. Management of health information strategies are examined. The U.S. Healthcare delivery system stakeholders are studied, and delivery forces, policy, and organizational strategies used to deliver care are discussed. (Credit is only allowed for either HIM 104 or HIT 102.)
Prerequisites: BIO 215, HIM 101, HIM 102, and HIM 103 with minimum grades of "C" and Reading Proficiency

**HIM 106. International Classification of Diseases Coding I. 3 Credit Hours.**
International Classification of Diseases Coding I introduces how to apply current clinical coding according to official guidelines. Classifications, taxonomies, nomenclatures, terminologies, and clinical vocabularies are explored. The course uses computerized encoding, application software, and work processes that support clinical classification. The impact of coding on the revenue cycle is discussed. Communication skills and team building in the workplace are emphasized throughout the course. (Credit is only allowed for either HIM 106 or HIT 106.)
Prerequisites: BIO 215, HIM 101, HIM 102, and HIM 103 with minimum grades of "C"; and Reading Proficiency

**HIM 107. Current Procedural Terminology Coding I. 3 Credit Hours.**
Current Procedural Terminology Coding (CPT) I introduces procedure coding to students using current industry standards in various healthcare settings. The reading and interpreting of healthcare documentation to correctly classify services and procedures will be covered. The impact of coding on the revenue cycle will be discussed. Communication skills and techniques for the workplace are emphasized throughout the course. (Credit is only allowed for either HIT 107 or HIM 107.)
Prerequisites: BIO 215, HIM 101, HIM 102, and HIM 103 with minimum grades of "C"; and Reading Proficiency
Corequisites: HIM 106

**HIM 200. Data Structure, Content, and Governance of Health Information. 5 Credit Hours.**
Data Structure, Content, and Governance of Health Information focuses on how to create the framework for an optimal health record and effective information exchange between healthcare providers. This is achieved by establishing clear guidelines for acceptable values and data sources, as well as how information is technically captured and processed for specified data fields. This course focuses on information systems, informatics principles, and information technology as they are applied to the continuum of healthcare delivery.
Prerequisites: HIM 101, HIM 102, and HIM 103 with minimum grades of "C"; and Reading Proficiency

**HIM 201. Reimbursement and Legal Compliance. 3 Credit Hours.**
Reimbursement and Legal Compliance studies the uses of coded data and health information in healthcare reimbursement. Payment systems are studied and relevant legal and compliance issues are explored. This course will investigate contemporary prospective payment systems, review key health plans, and examine fraudulent billing practices.
Prerequisites: BIO 215, HIM 101, HIM 102, and HIM 103 with minimum grades of "C"; and Reading Proficiency

**HIM 202. Access, Use, Disclosure, Privacy and Security Protection of Health Information. 5 Credit Hours.**
Access, Use, Disclosure, Privacy and Security Protection of Health Information examines how to establish, evaluate, and maintain policies and protocols for protecting healthcare information. The course will discuss systems and processes that generate, collect, store, transmit, and use health information. Solutions for maintaining patient privacy are explored. The integration of health information privacy and information technology security are investigated. Coordination efforts with corporate compliance, information technology, legal, and risk management areas are studied. Privacy and security protection strategies are analyzed within the health information life cycle.
Prerequisites: HIM 101, HIM 102, and HIM 103 with minimum grades of "C"; and Reading Proficiency

**HIM 203. Revenue Cycle Management. 5 Credit Hours.**
Revenue Cycle Management course presents oversight of business, administrative, and clinical functions that contribute to patient revenue from a point of entry through payment and adjudication. This may include insurance processing, registration, eligibility, claims management, billing, collections, and denial procedures. Management of the revenue cycle processes is explored. Reimbursement methodologies are presented with compliance and regulatory requirements.

Prerequisites: HIM 202 with a minimum grade of "C" and Reading Proficiency

**HIM 204. Health Law Compliance. 5 Credit Hours.**
Health Law Compliance studies legal processes impacting health information, external forces, and risk management components. The impact of global, national, and state policy on health care is examined. The process of establishing an organizational structure that promotes the prevention, detection, and resolution of instances of conduct that do not conform to federal, state, or private payer healthcare program requirements or the organization's ethical and business policies are discussed. (Credit is only allowed for either HIM 204 or HIT 213.)
Prerequisites: HIM 203 with a minimum grade of "C" and Reading Proficiency

**HIM 205. Health Informatics and its Applications. 5 Credit Hours.**
Health Informatics and its Applications investigates how information is manipulated and utilized by organizations and shared to external entities. Budgeting projections, long-term service line planning, and forecasting health care needs of an organization's patient population and resources used are discussed. The use of graphical representations of health care data, research methodologies used in health care, data management, and the effects of health information exchange are studied. Database management and identifying standards for health information exchange are explored. (Credit is only allowed for either HIM 205 or HIT 214.)
Prerequisites: MTH 180 (or MTH 180S) with minimum grade of "C" and Reading Proficiency

**HIM 206. International Classification of Diseases Coding II. 3 Credit Hours.**
International Classification of Diseases (ICD) Coding II is a continuation of ICD Coding I. Students are introduced to intermediate and advanced coding challenges to help build on basic concepts. Case study scenarios are introduced from a variety of settings. Diagnosis Related Groups (DRGs), and their relationship to clinical coding are emphasized. Additional elements of clinical coding are added to provide a full-bodied experience of coding intermediate cases.
Prerequisites: HIM 106 and HIM 107 with minimum grades of "C", and Reading Proficiency
Corequisites: HIM 207

**HIM 207. Current Procedural Terminology Coding II. 3 Credit Hours.**
Current Procedural Terminology Coding (CPT) II is a continuation of CPT I. Students will study intermediate and advanced coding challenges to build upon basic coding. Case study scenarios are used to teach progressive coding concepts and students will use a computerized encoder to help strengthen coding.
Prerequisites: HIM 107 with a minimum grade of "C" and Reading Proficiency
Corequisites: HIM 206

**HIM 208. Advanced Coding Applications. 2 Credit Hours.**
Advanced Coding Applications is the terminal course for students seeking to become a Clinical Coding Specialist. This course provides students with extensive, advanced practice in inpatient, ambulatory, physician practice, and nonacute-care settings. The student will use manual and computer encoder skills to prepare for national coding examination. (Credit is only allowed for either HIM 208 or HIT 208.)
Prerequisites: HIM 201 with a minimum grade of "C" and Reading Proficiency

**HIM 209. Organizational Management Leadership. 5 Credit Hours.**
Organizational Management Leadership focuses on using the skills and tools to manage, guide, improve operations, and provide innovative solutions based on health data. Leadership skills, organizational change, human resource strategies, and financial management concepts are explored. Students examine ways to proactively offer knowledge and decision support expertise, and support patient safety and quality initiatives which ultimately lead to greater trust and transparency within organizations and health care in general.
Prerequisites: Reading Proficiency

**HIM 210. Professional Practice Experience. 2 Credit Hours.**
Professional Practice Experience (PPE) allows students to experience the American Health Information Management Association (AHIMA) Virtual Lab in an environment that closely simulates the real-world application of various technologies used in the professional field. Supervisory management and leadership models are investigated. Data-driven performance indicators are used for coding students to create portfolios. Health Information Management (HIM) students create leadership portfolios that incorporate HIM best practices. (Credit is only allowed for either HIM 210 or HIT 210.)
Prerequisites: Department approval and Reading Proficiency

# Health Sciences (HS)

## Course Descriptions

**HS 101. Introduction to Health Professions. 1 Credit Hour.**
Introduction to Health Professions provides an overview of clinical health professions. The academic preparation and career opportunities are considered for each profession.
Prerequisites: Reading Proficiency

**HS 200. Health Literacy. 3 Credit Hours.**
Health Literacy provides an overview of non-medical factors affecting healthcare. The course covers definitions and influences on health literacy, ending with a review of public health and responsibility to community. Students examine social determinants of health while exploring how culture, diversity, ethics, and communication impact the overall healthcare experience.
Prerequisites: Reading Proficiency

**HS 210. Introduction to Evidence-Based Medicine and Research. 3 Credit Hours.**
Introduction to Evidence-Based Medicine and Research provides an introduction to the basic quantitative and qualitative research techniques used in public health, health education and promotion, and the health professions. Students develop a research question and use an evidence-based medical approach to draw conclusions.
Prerequisites: ENG 101, ENG 102, or ENG 103 with a minimum grade of "C", HIM 101 with a minimum grade of "C", concurrent or prior enrollment in MTH 180 with a minimum grade of "C", and Reading Proficiency

# History (HST)

## Course Descriptions

**HST 101. United States History to 1865 (MOTR HIST 101). 3 Credit Hours.**
United States History to 1865 surveys the constitutional, cultural, economic, institutional, political, and social forces which have shaped United States history. The course begins with the colonial period, runs through the Revolution and Early Republic, including the Constitutional Convention, and concludes with the causes, course, and immediate outcome of the Civil War. (Credit is only allowed for either HST 101 or HST 103.)
Prerequisites: Reading Proficiency or concurrent enrollment in RDG 079

**HST 102. United States History from 1865 to the Present (MOTR HIST 102). 3 Credit Hours.**
United States History from 1865 to the Present surveys forces and events which have shaped the United States from the Civil War to the present. It considers constitutional, institutional, cultural, economic, political, social, environmental, and other influences on national development. (Credit is only allowed for either HST 102 or HST 104.)
Prerequisites: Reading Proficiency or concurrent enrollment in RDG 079

**HST 115. Ancient and Medieval History to 1500 (MOTR WCIV 101). 3 Credit Hours.**
Ancient and Medieval History to 1500 is a survey of the Western World from Antiquity through the Late Middle Ages. The course will cover ancient civilizations of the Mediterranean and the Near East; ancient Greece and Rome; the impact of Christianity, Islam, and Byzantium; and the contributions of Celtic, Germanic, and other tribal societies to Western Civilization.
Prerequisites: Reading Proficiency

**HST 128. Western Civilization from 1500 to the Present (MOTR WCIV 102). 3 Credit Hours.**
Western Civilization from 1500 to the Present surveys the political, economic, cultural, military, and social forces that have shaped the Western World. The course also examines religious developments, overseas colonization, the Enlightenment, industrialization, imperialism, the world wars, and globalization.
Prerequisites: Reading Proficiency

**HST 137. African American History through Reconstruction (MOTR HIST 101AA). 3 Credit Hours.**
African American History through Reconstruction is a survey of African American history from its African background through the Civil War and Reconstruction. The course will investigate African American leaders, sociocultural institutions, as well as the Black community's relationship with the larger community.
Prerequisites: Reading Proficiency or concurrent enrollment in RDG 079

**HST 138. African American History from Reconstruction to the Present (MOTR HIST 102AA). 3 Credit Hours.**
African American History from Reconstruction to the Present is a survey of African American history from the era of Jim Crow to the present. The course will investigate African American leaders, sociocultural institutions, as well as the Black community's relationship with the larger community.
Prerequisites: Reading Proficiency

**HST 141. United States History, 1945-Present. 3 Credit Hours.**
This course surveys how the end of World War II gave rise to social, cultural, intellectual, political, economic, and environmental forces that have collectively shaped American experience in the twenty-first century.
Prerequisites: Reading Proficiency

# Horticulture (HRT)

## Course Descriptions

**HRT 101. Introductory Horticulture. 4 Credit Hours.**
Introductory Horticulture is an introduction to the biological aspects of plant life in the natural and built environment. Topics include cell structure, anatomy, morphology, physiology, taxonomy, environmental factors that affect plant growth, biodiversity, ecosystems, and sustainability as it relates to horticulture.
Prerequisites: Reading Proficiency or concurrent enrollment in RDG 079

**HRT 102. Soils. 3 Credit Hours.**
Soils provides an understanding of the critical role that soils play in urban and agricultural settings. Topics include soil biology, the chemical and physical properties of soil, soil water, soil health, organic matter, urban soil issues, and soil formation. Emphasis is placed on soil as it relates to plant growth and nutrition, fertility, soil sampling, soil amendments, and soil testing. An introduction to storm water management, rain gardening, and manufactured soils is discussed.
Prerequisites: Concurrent or prior enrollment in HRT 101 or BIO 124 with a minimum grade of "C", and Reading Proficiency

**HRT 103. Plant Propagation. 3 Credit Hours.**
Plant Propagation introduces students to the various methods of propagation on woody, herbaceous, and vegetable plants. Topics include reproduction by seed, vegetative propagation including cutting, grafting, layering, propagation of specialized structures, and tissue culture.
Prerequisites: Concurrent or prior enrollment in HRT 101 or BIO 124 with a minimum grade of "C", and Reading Proficiency

**HRT 104. Landscape Graphics. 3 Credit Hours.**
Landscape Graphics is an introduction to hand drawing landscape graphics. Students will develop hand drawing skills and learn how to apply them to base maps, functional diagrams, and planting layouts. Hand drawing skills will be used to develop a site analysis and a Master Plan.
Prerequisites: Reading Proficiency

**HRT 105. Workplace Learning. 2 Credit Hours.**
Workplace Learning is an experiential course that provides the student the opportunity to apply theory and skills learned in the classroom, learn new skills, and explore career possibilities while supervised by a professional in the field and a faculty member. Students will observe and participate in the functions of the horticultural business or institution to enhance their preparation for entering the workforce. Minimum 50 hours per credit hour in the workplace throughout the term.
Prerequisites: HRT 102, HRT 206, HRT 207, HRT 214, and HRT 230 with minimum grades of "C", approval of Horticulture Department Program Coordinator, and Reading Proficiency

**HRT 106. Digital Applications in Landscape Design. 1 Credit Hour.**
Digital Applications in Landscape Design introduces students to multiple digital platforms used in the process of landscape design. Students will use various computer aided design programs and other software options for use in landscape design.
Prerequisites: Reading Proficiency

**HRT 134. Micropropagation of Plants. 3 Credit Hours.**
Micropropagation of Plants is an introduction to micropropagation, also called tissue culture. Topics presented include plant anatomy, hormones involved in plant growth, micropropagation techniques, and industry uses. Techniques practiced include apical, root, and seed propagation, and callus manipulation influenced by different hormones.
Prerequisites: HRT 103 with a minimum grade of "C" and Reading Proficiency

**HRT 135. Introduction to Cannabis. 3 Credit Hours.**
Introduction to Cannabis introduces students to Cannabis and hemp plants. The course will focus on the anatomy and physiology of the Cannabis plant, the history of Cannabis, and the various uses for and products of Cannabis and hemp. It will also explore the different cannabinoids and chemical compounds of the Cannabis plant.
Prerequisites: Concurrent or prior enrollment in HRT 101 or BIO 124 with a minimum grade of "C", and Reading Proficiency

**HRT 136. Cannabis and Hemp Cultivation. 3 Credit Hours.**
Cannabis and Hemp Cultivation covers techniques of growing and cultural requirements for cannabis and hemp. Students will experience the growing process from propagation to harvest of both cannabis and industrial hemp. Discussion of soil culture requirements for each type of plant is included along with experience in the greenhouse with both cannabis and hemp.
Prerequisites: Prior or concurrent enrollment in HRT 135 with a minimum grade of "C" and Reading Proficiency

**HRT 137. Laboratory Methods for Cannabis Extraction. 3 Credit Hours.**
Laboratory Methods for Cannabis Extraction introduces students to cannabis extraction techniques and methods. Students will gain a broad perspective of product types and trends in the cannabis and hemp industries. Laboratory techniques for analyzing different chemical compounds including cannabinoids, terpenes, and flavonoids will be applied.
Prerequisites: HRT 135 with a minimum grade of "C" and Reading Proficiency

**HRT 140. Topics in Horticulture. 3 Credit Hours.**
Topics in Horticulture is an introduction to new and emerging topics and trends in horticulture. Advances in technology, methods, and subjects that are relevant to the horticulture industry will be introduced and emphasized to students.
Prerequisites: Reading Proficiency
Recommended Preparation: Computer proficiency and experience in the field of horticulture

**HRT 141. Foundations of Horticultural Ecology. 3 Credit Hours.**
Foundations of Horticultural Ecology focuses on basic ecological principles and their importance to horticultural practice in urban, peri-urban, and rural environments. Case studies from Saint Louis and the surrounding region serve as a framework for this class. Students develop a foundation in evidence-based scientific thinking and a shared language of horticultural ecology.
Prerequisites: Reading Proficiency

**HRT 201. Turfgrass Management. 3 Credit Hours.**
Turfgrass Management introduces students to general and special-purpose turfgrasses. Turfgrass use, establishment, management, alternatives, and sustainable uses will be emphasized. The course allows students to develop basic skills in turfgrass identification, pest diagnosis, cultural management, and practical application of turf equipment.
Prerequisites: Concurrent or prior enrollment in HRT 101 or BIO 124 with a minimum grade of "C", and Reading Proficiency

**HRT 205. Nursery and Garden Center Practices. 3 Credit Hours.**
Nursery and Garden Center Practices is an overview of the nursery and garden center industries. Students will engage in discussion of nursery operations including propagation methods, sales, business strategies, garden industry trends, production methods, and distribution challenges. Garden center topics will include merchandising, garden center layout, product trends, marketing (including social media strategies), labor challenges, growing versus purchasing challenges, and seasonal challenges in the garden center industry.
Prerequisites: Concurrent or prior enrollment in HRT 101 or BIO 124 with a minimum grade of "C", and Reading Proficiency

**HRT 206. Woody Plants - Trees and Vines. 3 Credit Hours.**
Woody Plants - Trees and Vines is a study of deciduous trees and woody vines and their use in the landscape. Identifying plants using botanical characteristics, plant culture, and appropriate landscape applications will be emphasized. Information on native plants, their habitat, and ecological benefits along with information on invasive plants and how they affect our environment will be discussed.
Prerequisites: Concurrent or prior enrollment in HRT 101 or BIO 124 with a minimum grade of "C", and Reading Proficiency

**HRT 207. Woody Plants - Shrubs and Evergreens. 3 Credit Hours.**
Woody Plants - Shrubs and Evergreens is a study of shrubs and evergreens and their use in the landscape. Identifying plants using botanical characteristics, plant culture, and appropriate landscape applications will be emphasized. Information on native plants, their habitat, and ecological benefits along with information on invasive plants and how they affect our environment will be included.
Prerequisites: Concurrent or prior enrollment in HRT 101 or BIO 124 with a minimum grade of "C", and Reading Proficiency

**HRT 214. Landscape Management. 3 Credit Hours.**
Landscape Management provides students the skills necessary to manage and maintain various residential, institutional, municipal, and commercial settings. Specific topics will include planting techniques, soil preparation, proper pruning methods, time management, integrated plant health care, and equipment operation. Storm water management and rain garden management will be emphasized. Students will spend significant time in the outdoor garden classroom working with plants in their environments.
Prerequisites: Concurrent or prior enrollment in HRT 101 or BIO 124 with a minimum grade of "C", and Reading Proficiency

**HRT 217. Landscape Design I. 3 Credit Hours.**
Landscape Design I is a continuation of HRT 104. Emphasis will be on applying the principles of art and design in developing complete and professional landscape plans. Students will apply multiple planting design themes and approaches along with proper plant selection as part of the design process. Further development of site analysis skills and ecological applications to design will be addressed.
Prerequisites: HRT 104, HRT 206, and HRT 207 with minimum grades of "C", and Reading Proficiency

**HRT 218. Landscape Design II. 3 Credit Hours.**
Landscape Design II is a continuation of Landscape Design I with emphasis on the application of the principles of art and design in developing landscape plans. This class will detail conceptual and planting design and emphasize construction plans. Topography layout, rendering, and special projects will be key attributes to this course.
Prerequisites: HRT 217 with a minimum grade of "C" and Reading Proficiency

**HRT 220. Landscape Irrigation. 3 Credit Hours.**
Landscape Irrigation provides an overview of the components, management, design, and use of irrigation systems in various landscape situations. Specific applications for turf and garden irrigation will be addressed.
Prerequisites: Reading Proficiency

**HRT 227. Integrated Pest Management. 3 Credit Hours.**
Integrated Pest Management is a study of the insect and disease pests that affect ornamental plants. Emphasis is on pest identification and treatment through a knowledge of signs, symptoms, and pest life cycles. Preparation for the Missouri Pesticide Applicator License is also included.
Prerequisites: HRT 101 or BIO 124, HRT 206, HRT 207 with minimum grades of "C", and Reading Proficiency

**HRT 230. Herbaceous Perennials and Ornamental Grasses. 3 Credit Hours.**
Herbaceous Perennials and Ornamental Grasses introduces students to the uses of perennials and ornamental grasses in the landscape and the roles they play in commercial and residential garden design. Plant identification including specific characteristics such as growth habit, foliage, and flowers will be emphasized. Cultural requirements and sustainable methods of plant usage will be discussed with a particular focus on native perennials and grasses and their benefits to local ecosystems.
Prerequisites: Concurrent or prior enrollment in HRT 101 or BIO 124 with a minimum grade of "C", and Reading Proficiency

**HRT 231. Native Plants: Intentional Communities. 3 Credit Hours.**
Native Plants: Intentional Communities affords students the opportunity to apply best practices in the maintenance of native landscapes, identify native plants in the field, and develop the skills to create intentional plant communities. This course focuses on the fundamentals and marketing of native plant design for intentional eco-communities. Field trips are required for this course. Students are responsible for arranging transportation to field trips.
Prerequisites: Reading Proficiency

**HRT 232. Sustainable Land Management. 3 Credit Hours.**
Sustainable Land Management focuses on the core principles and best practices of resource management in an age of climate change, such as prolonged droughts, inundation, soil degradation, and shifting populations of invasive insects, plants, and other pathogens, as well as dwindling resources in an unstable global economy. Using plants to help buffer communities, address resiliency planning, and add economic value to a site are discussed. Students learn innovative and blended approaches to land and water management using best management practices. Field trips are required for this course. Students are responsible for arranging transportation to field trips.
Prerequisites: Reading Proficiency

**HRT 233. Urban Reconstruction and Horticultural Conservation. 3 Credit Hours.**
Urban Reconstruction and Horticultural Conservation focuses on basic restoration and conservation practices as they apply to the field of horticulture. Students learn methods for long-term monitoring of natural areas and establishing and maintaining native communities in a variety of ecosystems. Field trips are required for this course. Students are responsible for arranging transportation to field trips.
Prerequisites: Reading Proficiency

**HRT 234. Invasive Species: Plants, Wildlife, and People. 3 Credit Hours.**
Invasive Species: Plants, Wildlife, and People introduces students to the field identification of insects, mollusks, vertebrates, and plants that directly impact horticultural work. Invasive and beneficial organisms are discussed in relation to one another and the environment. Students apply Integrated Pest Management (IPM) practices with a focus on environmental responsibility and sustainability. Field trips are required for this course. Students are responsible for arranging transportation to field trips.
Prerequisites: Reading Proficiency

**HRT 235. Annuals and Vegetables. 3 Credit Hours.**
Annuals and Vegetables introduces students to the identification of annual landscape plants and their use in private, public, and commercial gardens. Identification, use, and culture of vegetables will also be covered. Students will experience growing annuals and vegetables in an outdoor farm and garden environment.
Prerequisites: Reading Proficiency

**HRT 241. Greenhouse Management. 3 Credit Hours.**
Greenhouse Management introduces students to various techniques for producing a variety of ornamental crops. Greenhouse structures, greenhouse environmental factors, and their effect on plant growth will also be studied. Wholesale production and retail marketing will be presented. Special attention will be paid to the St. Louis and Midwest markets.
Prerequisites: Concurrent or prior enrollment in HRT 101 or BIO 124 with a minimum grade of "C", and Reading Proficiency

**HRT 242. Urban Tree Management. 3 Credit Hours.**
Urban Tree Management introduces students to the management of urban forest greenspaces. Social value of urban trees, street and park tree inventories, tree ordinances, and program administration are emphasized. Tree selection, site evaluation, soil characteristics, planting methods, pruning practices, and hazard tree evaluation will be included.
Prerequisites: HRT 206 with a minimum grade of "C" and Reading Proficiency

**HRT 250. Native Landscaping Practices. 3 Credit Hours.**
Native Landscaping Practices provides students with hands-on learning in the identification, use, installation, and maintenance of native plants in the landscape. Focus will be on principles of native plant horticulture, planning and design, site evaluation and preparation, problems and solutions with native landscaping, invasive plants, development of rain gardens using native plants, and best management practices. Field trips are required for this course. Students are responsible for arranging transportation to field trips.
Prerequisites: HRT 101 or BIO 124, HRT 102 with minimum grades of "C", and Reading Proficiency
Recommended Preparation: Students should be prepared to be outside for classes

# Hospitality and Tourism (HTM)

## Course Descriptions

**HTM 100. Introduction to the Hospitality Industry. 3 Credit Hours.**
Introduction to the Hospitality Industry introduces the student to the business of hospitality and presents the exciting career opportunities available in one of the world's largest and most dynamic industries. It focuses on defining hospitality, introducing its various service segments, and presenting possible career paths within each segment. (Credit is only allowed for either HTM 100 or HRM 134.)
Prerequisites: Reading Proficiency

**HTM 115. Hospitality Customer Service and Guest Relations. 3 Credit Hours.**
Hospitality Customer Service and Guest Relations provides the student with the basic knowledge of "service" and how it applies to managing guest relations in the hospitality industry. Customer service expectations will be examined from the perspective of those who deliver it and those who manage it. (Credit is only allowed for either HTM 115 or HRM 210.)
Prerequisites: HTM 100 with a minimum grade of "C" and Reading Proficiency

**HTM 120. Supervision and Leadership in the Hospitality Industry. 3 Credit Hours.**
Supervision and Leadership in the Hospitality Industry introduces students to the functions of a typical hospitality supervisor/leader as they relate to and impact stakeholders within a hospitality organization. Supervisory roles, responsibilities, and essential supervisory skills are presented through study and practical applications. (Credit is only allowed for either HTM 120 or HRM 201.)
Prerequisites: HTM 100 with a minimum grade of "C" and Reading Proficiency

**HTM 200. Procurement in the Hospitality Industry. 3 Credit Hours.**
Procurement in the Hospitality Industry will prepare students to employ the principles of effective food, beverage, and supply purchasing necessary to support food preparation and service departments of hospitality operations. Students will be exposed to product specifications, comparative buying, and procedures associated with purchasing, receiving, issuing and inventory control using current industry technology, processes and procedures. (Credit is only allowed for either HTM 200 or HRM 112.)
Prerequisites: HTM 100 and MTH 108 or higher with minimum grades of "C", and Reading Proficiency

**HTM 205. Legal Aspects of Hospitality. 3 Credit Hours.**
Legal Aspects of Hospitality is a comprehensive study of the legal issues encountered in hospitality management. Prevention and compliance are stressed to reduce potential liability in hospitality organizations. Areas of emphasis include government regulations, employment, contractual agreements, insurance, property, safety and security, food and beverage management, and guest liability. (Credit is only allowed for either HTM 205 or HRM 202.)
Prerequisites: HTM 100 with a minimum grade of "C" and Reading Proficiency

**HTM 210. Hospitality Financial Planning and Cost Control. 3 Credit Hours.**
Hospitality Financial Planning and Cost Control introduces students to common methods of operational cost control and accountability found in the hospitality industry. Students will be introduced to operational standards and the impact they have on financial performance. Costs of food, beverage, labor, and direct expenses are examined. Budgeting, forecasting, analysis, and decision making are examined. (Credit is only allowed for either HTM 210 or HRM 205.)
Prerequisites: HTM 100 and MTH 108 or higher with minimum grades of "C", and Reading Proficiency

**HTM 215. Hospitality Sales and Marketing. 3 Credit Hours.**
Hospitality Sales and Marketing introduces students to fundamental marketing terms, theory, and concepts that are found within the hospitality and tourism industry. Marketing is emphasized as a management philosophy that guides the design and delivery of guest services, a way of doing business. Both short and long-term marketing plans are examined with a focus on how marketing impacts every facet of the hospitality organization. (Credit is only allowed for either HTM 215 or HRM 209.)
Prerequisites: HTM 100 with a minimum grade of "C" and Reading Proficiency

**HTM 225. Hotel Operations. 3 Credit Hours.**
Hotel Operations examines the organization, functions, and management of typical lodging operations. It focuses on the interdependent nature of the major departments within a hotel/resort operation; rooms division, food and beverage, sales and marketing, housekeeping and maintenance, and general administration. (Credit is only allowed for either HTM 225 or HRM 213.)
Prerequisites: HTM 100 with a minimum grade of "C" and Reading Proficiency

**HTM 230. Bar and Beverage Management. 3 Credit Hours.**
Bar and Beverage Management introduces the student to the topics of beverage knowledge, purchasing, control, marketing, legislation, staffing, service, food pairing, and responsible alcohol beverage service as they relate to positions found within the hospitality industry. Students are offered the opportunity to earn the ServSafe Alcohol certification through the National Restaurant Association. (Credit is only allowed for either HTM 230 or HRM 212.)
Prerequisites: HTM 100 with a minimum grade of "C" and Reading Proficiency

**HTM 240. Workplace Learning: Hospitality. 4 Credit Hours.**
Workplace Learning: Hospitality provides the student an opportunity to apply theory and skills learned in the classroom, learn new skills, and explore career possibilities while supervised by professionals in the field and a faculty member. Student will observe and participate in the functions of the hospitality industry, participate in service learning projects, volunteer for events sponsored by the hospitality department, or a combination of above, to enhance their preparation for entering the hospitality field. The student is required to complete a minimum of 200 hours of documented experience in a position or activity related to their academic or career goal. (Credit is only allowed for either HTM 240 or HRM 141 and HRM 221.)
Prerequisites: HTM 100 with a minimum grade of "C" and Reading Proficiency
Corequisites: Must be concurrently enrolled in at least one class which is related to student's Major or career interest or with permission of the instructor

**HTM 245. Meetings and Event Planning. 3 Credit Hours.**
Meetings and Event Planning provides students with a practical overview of the many factors that must be considered in the planning and execution of successful meetings and special events. Students will be exposed to program goals and objectives, basic budget questions, destination options and venue considerations, transportation options, food and beverage decisions, speaker and entertainment selection, and other critical aspects of event planning. (Credit is only allowed for either HTM 245 or HRM 261.)
Prerequisites: HTM 100 with a minimum grade of "C" and Reading Proficiency

**HTM 275. Travel and Tourism. 3 Credit Hours.**
Travel and Tourism provides a comprehensive overview of this enormous and captivating field and how it interconnects with hospitality. It thoroughly examines the various sectors of the industry (e.g., transportation, accommodations, food and beverage, attractions and entertainment, and destinations) considering the management, marketing and finance issues most important to industry members. It also investigates the economic, political, environmental, social, and cultural impacts of tourism, along with current and future trends.
Prerequisites: HTM 100 with a minimum grade of "C" and Reading Proficiency

**HTM 280. Hospitality Management Capstone. 3 Credit Hours.**
Hospitality Management Capstone requires the student to use both technical knowledge and managerial ability to plan, organize, and complete a foodservice event simulation. Menu planning, recipe development, personnel management, production management, marketing, and financial analysis will be covered. Students will plan, organize, and report out on all aspects of a hospitality foodservice simulated event.
Prerequisites: HTM 115 and HTM 210 with minimum grades of "C", and Reading Proficiency

# Human Services (HMS)

## Course Descriptions

**HMS 100. Introduction to Human Services. 3 Credit Hours.**
Introduction to Human Services introduces students to human and community needs and to the concepts of the helping profession. Students examine community resources, the relationship of agencies and bureaucracies to the total community, and the worker's role and responsibility in the helping profession.
Prerequisites: Reading Proficiency

**HMS 101. Human Services: Theories and Skills. 3 Credit Hours.**
Human Services:Theories and Skills introduces students to the theoretical and practical knowledge needed for entry-levels of practice in social work/human services. The course introduces students to the theories of personality development and behavior, assessment process, recording rules, confidentiality issues, treatment planning, and other pertinent information necessary for the entry level human service practitioner.
Prerequisites: Reading Proficiency

**HMS 102. Human Services: Policy and Politics. 3 Credit Hours.**
Human Services: Policy and Politics is an analysis of the political process involved in the formulation of social welfare policies from a historical point of view. Students will examine federal, state, and local social welfare programs and how they impact program planning and delivery.
Prerequisites: Reading Proficiency

**HMS 111. Group Practice in Human Services. 3 Credit Hours.**
Group Practice in Human Services focuses on the basic issues of group work in Human Services settings. The course will introduce students to the theory of group work and practice theory, including a study of the various types of groups, ethical issues, group leadership and the process of forming and working with groups.
Prerequisites: Reading Proficiency
Recommended Preparation: HMS 100

**HMS 201. Workplace Learning I: Human Services. 3 Credit Hours.**
This workplace-based course provides the student the opportunity to apply theory and skills learned in the classroom, learn new skills, and explore career possibilities while supervised by a professional in the field and a faculty member. Students will observe and participate in the function of the organization to enhance their preparation for entering the Human Services field. Minimum 50 hours per credit hour in the workplace throughout the term.
Prerequisites: HMS 100 and HMS 101 with grades of "C" or better and Reading Proficiency
Corequisites: HMS 203

**HMS 202. Workplace Learning II: Human Services. 3 Credit Hours.**
This workplace-based course provides the student the opportunity to apply theory and skills learned in the classroom, learn new skills, and explore career possibilities while supervised by a professional in the field and a faculty member. Students will observe and participate in the function of the organization to enhance their preparation for entering the Human Services field. Minimum 50 hours per credit hour in the workplace throughout the term.
Prerequisites: HMS 201 and HMS 203 with grades of "C" or better and Reading Proficiency
Corequisites: HMS 204

**HMS 203. Human Services Workplace Learning Seminar I. 3 Credit Hours.**
Discussion and analysis in small groups of the human services practicum experience. There will be special learning objectives related to the kind of work the student will do in an organization after completion of the program.
Prerequisites: HMS 100 and HMS 101 with grades of "C" or better and Reading Proficiency
Corequisites: HMS 201

**HMS 204. Human Services Workplace Learning Seminar II. 3 Credit Hours.**
This course builds on the learning objectives of HMS 203. These objectives will be related to the work the student will do after completion of the program.
Prerequisites: HMS 100, HMS 101, HMS 201 and HMS 203 all with grades of "C" or better and Reading Proficiency
Corequisites: HMS 202

**HMS 205. Crisis Intervention. 3 Credit Hours.**
Course designed as a beginning training unit for people who anticipate or are presently working with individuals in crisis situations such as suicide, rape, spouse abuse, death, and drugs. Will focus on theory and practical application of crisis intervention techniques.
Prerequisites: Reading Proficiency

# Humanities (HUM)

## Course Descriptions

**HUM 109. Arts and Ideas in the Ancient World (MOTR WCIV 101). 3 Credit Hours.**
Arts and Ideas in the Ancient World uses the visual arts and literature to trace the development of belief systems from the earliest expressions found in prehistoric remains through the rise of the great civilizations of Egypt, Greece, and Rome.
Prerequisites: Reading Proficiency or concurrent enrollment in RDG 079

**HUM 110. The Middle Ages and the Renaissance (MOTR WCIV 101). 3 Credit Hours.**
The Middle Ages and the Renaissance explores the arts and ideas, including philosophies and religions, that infused and created the cultural periods known as the Middle Ages and Renaissance in Western Europe, and the ways in which these arts and ideas represented the visible and/or audible expression of the human condition.
Prerequisites: Reading Proficiency

# Information Systems (IS)

## Course Descriptions

**IS 102. Keyboarding and Formatting. 3 Credit Hours.**
Keyboarding and Formatting is a skill-development course in which students utilize proper techniques to develop touch control of the keyboard and apply basic formatting skills to letters, memos, reports, and tables. (Credit is only allowed for either IS 102 or AOS 101.)

**IS 116. Computer Literacy. 3 Credit Hours.**
Computer Literacy develops computing skills in technology awareness, terminology and concepts of computers including file management, Internet browsers, ethical computer policies, and web page development. Students gain proficiency using productivity tools such as word processors, presentation software, electronic spreadsheets, and database management. Students will also develop a computer application.
Prerequisites: Reading Proficiency

**IS 120. Introduction to Excel. 1 Credit Hour.**
Introduction to Excel teaches the fundamentals of creating and managing Excel worksheets and workbooks. Topics include creating cells and ranges, creating tables, applying formulas and functions, and creating basic charts and objects to represent data visually.
Prerequisites: Reading Proficiency

**IS 122. Windows. 3 Credit Hours.**
Windows is a skill-development course covering the Microsoft Windows operating system. Topics include file and folder management and organization, hardware management, software management, network connection, system customization, system optimization, and system security.
Prerequisites: Reading Proficiency

**IS 123. Introduction to Windows. 1 Credit Hour.**
Students learn the basic concepts of the Windows environment and how to create and manage files within the organizational structure of that environment. The desktop, accessories, and navigational tools will also be covered.

**IS 129. HTML. 1 Credit Hour.**
HTML covers the essentials of creating web pages using Hypertext Markup Language (HTML) and Cascading Style Sheets (CSS). Students will create and edit web pages which include text, hyperlinks, images, and tables. HTML and CSS will be used to control page appearance and layout.
Prerequisites: Reading Proficiency
Recommended Preparation: IS 123 or equivalent experience

**IS 130. Hardware Support - CompTIA A+ Core 1 (Hardware). 3 Credit Hours.**
Hardware Support - CompTIA A+ Core 1 (Hardware) covers the theory and hands-on skills necessary to pass the CompTIA A+ hardware (Core 1) exam. Topics covered include hardware fundamentals, networking, and security. Students will learn basic operating system functionality and troubleshooting methodology, the practice of proper safety procedures, and how to effectively interact with customers and co-workers.
Prerequisites: Reading Proficiency
Recommended Preparation: Basic computer literacy is expected

**IS 136. Internet Fundamentals. 1 Credit Hour.**
Internet Fundamentals provides practical information regarding Internet practices and safety. Searching, validating, and securely passing information to and from the Internet are emphasized. Identifying and mitigating common threats such as spyware, viruses, Trojan Horses, and identity theft are covered.
Prerequisites: Reading Proficiency

**IS 139. Web Publishing. 3 Credit Hours.**
Web Publishing introduces current industry standards for web development and design techniques that include the use of Hypertext Markup Language (HTML), Cascading Style Sheets (CSS), and an introduction to JavaScript. Topics such as web development process, accessibility standards, platform standards, HTML editors and converters, Web 2.0 Technologies, performance issues, tables, forms, dynamic content, and website management issues will be presented.
Prerequisites: Reading Proficiency

**IS 141. Graphics for the Web. 3 Credit Hours.**
Graphics for the Web focuses on generating graphics that can be utilized within the context of the Internet. Topics will include use of graphics at the appropriate times, performance issues, button creation, animated graphics, and multimedia tools.
Prerequisites: IS 139 with a minimum grade of "C" and Reading Proficiency

**IS 142. Web Development. 3 Credit Hours.**
Web Development is an in-depth study of the development and implementation of engaging websites using current industry production tools. Accessibility, security, and website management issues will be addressed. Topics including file formats, platform standards, user-centered navigation, dynamic content such as streaming video/audio, and search engine concepts will be presented.
Prerequisites: IS 153 or IS 167 or IS 187 with a minimum grade of "C", IS 139 with a minimum grade of "C", concurrent or prior enrollment in IS 265 with a minimum grade of "C", and Reading Proficiency

**IS 151. Computer Applications in Business. 4 Credit Hours.**
Computer Applications in Business covers software programs frequently used in the business environment. Word processing, spreadsheets, database management, web-based email, presentation software cloud-based tools, and collaboration software will be introduced.
Prerequisites: Concurrent or prior enrollment in IS 122 or IS 123 or IT 102 or HIM 102 with a minimum grade of "C" or equivalent experience and Reading Proficiency

**IS 153. C# Programming I. 4 Credit Hours.**
This course emphasizes software development problem-solving methodologies utilizing current software design and development tools and techniques. Topics include data structures, program design, pseudocode, language control structures, procedures and functions, error handling, and Object Oriented design using classes. Assignments will be developed in the C# language using the current development environment.
Prerequisites: Reading Proficiency

**IS 165. Computer Applications-Microsoft Project. 1 Credit Hour.**
This course introduces students to the Microsoft Project software application. Microsoft Project allows students, professionals, volunteers, or an individual managing or working on a project to organize all the details of a project into one central repository.
Prerequisites: Reading Proficiency

**IS 166. C# and Java Programming I. 4 Credit Hours.**
C# and Java Programming I teaches students software development problem-solving methodologies utilizing current software design and development tools and techniques. Students will also receive an introduction to both the C# and Java programming languages. Topics include data structures, program design, pseudocode, language control structures, procedures and functions, error handling, and Object Oriented design using classes. (Credit is only allowed for either IS 166 or IS 153 and IS 187.)
Prerequisites: Reading Proficiency
Recommended Preparation: Basic computer literacy is required

**IS 167. C++ Programming I. 4 Credit Hours.**
C++ Programming I introduces software development problem-solving methodologies utilizing current software design and development tools and techniques. Topics include data structures, program design, pseudocode, language control structures, system and user defined functions, error handling, pointers, arrays, and Object-Oriented design using classes. Assignments are developed in C++ using a current integrated development environment (IDE). Basic computer literacy expected.
Prerequisites: Reading Proficiency

**IS 168. GitHub for Developers. 1 Credit Hour.**
GitHub for Developers covers the Git source control tool and GitHub code hosting services. Students learn to use Git and GitHub efficiently to create and manage their personal and professional projects.
Prerequisites: Reading Proficiency
Recommended Preparation: Internet basics

**IS 187. Java Programming I. 4 Credit Hours.**
In this course, students learn software development problem-solving methodologies utilizing current software design and development tools and techniques, and also receive an introduction to the Java programming language. Topics include data structures, program design, pseudocode, language control structures, procedures and functions, error handling, and Object Oriented design using classes. Assignments are developed in Java using a current integrated development environment (IDE). Basic computer literacy expected.
Prerequisites: Reading Proficiency

**IS 225. Database Management. 4 Credit Hours.**
This course will cover the concepts, skills, methodology, and database technology necessary to design and implement a relational database management system. Topics include relational databases, data structures, relational data modeling, and design using current industry techniques and tools. This course emphasizes Structured Query Language (SQL) commands to create a relational database.
Prerequisites: Reading Proficiency

**IS 229. Unix/Linux I. 3 Credit Hours.**
This course introduces the Unix/Linux operating system with special focus on the organization and maintenance of the file system. Students are also introduced to basic installation and configuration of the operating system and will build and troubleshoot a stand-alone Unix/Linux machine. Course objectives align with the Linux Professional Institute Level 1 certification and emphasize command line process. Basic computer literacy is expected.
Prerequisites: Reading Proficiency

**IS 237. Fundamentals of Information Assurance/Security - CompTIA Security+. 3 Credit Hours.**
Fundamentals of Information Assurance/Security - CompTIA Security+ examines fundamentals of network security involved in creating and managing secure computer network environments. Both hardware and software topics are considered, including authentication methods, remote access, network security architectures and devices, cryptography, forensics, and disaster recovery plans. This course serves as a preparation basis for the CompTIA Security+ exam.
Prerequisites: IT 102 or IS 229 with a minimum grade of "C" and Reading Proficiency

**IS 240. SQL and Database Development. 3 Credit Hours.**
This course covers the concepts of Structured Query Language (SQL) and database development. Students learn how to create tables, views, and indexes. Managing and formatting data, developing queries and sub-queries, and advanced reporting are presented. Students learn how to develop, manage, and implement database control and connectivity techniques.
Prerequisites: IS 225 with a minimum grade of "C" and Reading Proficiency

**IS 241. Systems Analysis and Design. 3 Credit Hours.**
Systems Analysis and Design covers the concepts, skills, methodologies, techniques, and perspectives essential to analyze and design information systems. Visual and emerging development tools are used to focus on object-oriented and visual development of information systems.
Prerequisites: IS 153 or IS 167 or IS 187 with a minimum grade of "C", and IS 139 or IS 253 or IS 267 or IS 287 with a minimum grade of "C", and Reading Proficiency

**IS 253. C# Programming II. 4 Credit Hours.**
C# Programming II focuses on broadening and deepening the student's understanding of Object Oriented Programming (OOP) as implemented in the C# language. Core elements include creating and deploying Windows programs, form application basics, building user interfaces using basic techniques, .NET fundamentals, basic coding within the .NET framework, design and development of classes, overloading and overriding methods and constructors, inheritance, encapsulation, and interfaces. Course objectives align with the Microsoft Certified Technical Specialist (MCTS) .NET Framework, Windows Applications certification.
Prerequisites: IS 153 or IS 167 or IS 187 or IS 166 with minimum grades of "C" and Reading Proficiency

**IS 257. Big Data Analytics. 3 Credit Hours.**
Big Data Analytics is a continuation of the database design course covering implementation concepts such as n-tier architectures, middleware, SQL and JSON functionality, distributed databases, data warehousing and the Big Data platforms Hadoop and MongoDB. The course focuses on application of both theory and practice.
Prerequisites: IS 225 with a minimum grade of "C" and Reading Proficiency

**IS 264. Unix/Linux II. 3 Credit Hours.**
This course prepares students to perform basic Unix/Linux systems administration and network installation tasks. Students will be introduced to the design, configuration, and installation of system services along with the management and automation of those services through shell scripting. System security will also be covered. Course objectives align with the Linux Professional Institute Level 1 certification. (Credit is only allowed for either IS 264 or IS 501.)
Prerequisites: IS 229 with a minimum grade of "C" and Reading Proficiency

**IS 265. Web Scripting Technologies. 3 Credit Hours.**
This course presents current and emerging scripting technologies used for development of state-of-the-art websites and other applications. The primary focus is on client-side technologies. Students will use a variety of technologies in this project-oriented class.
Prerequisites: IS 139 with a minimum grade of "C" and Reading Proficiency

**IS 267. C++ Programming II. 4 Credit Hours.**
C++ Programming II focuses on broadening and deepening the student's understanding of Object Oriented Programming (OOP) as implemented in the C++ language. Core elements include design and development of classes and the use of inheritance, including multiple inheritance, polymorphism, and the use of the Standard Template Library. Development of Graphical User Interfaces in an integrated development environment (IDE) will be explored.
Prerequisites: IS 167 with a minimum grade of "C" and Reading Proficiency

**IS 268. SQL Server Programming. 3 Credit Hours.**
This course is an in-depth study of Microsoft SQL Server programming. Students learn the advanced features of SQL Server to interact with the database and other applications. Advanced techniques such as database cursors, triggers, and stored procedures, SQL Server Data Tools, and SQL Server Reporting Services are presented. In addition, students gain the essential knowledge and skills in collecting, analyzing, interpreting, and presenting information obtained from multiple data sources.
Prerequisites: IS 240 with a minimum grade of "C" and Reading Proficiency

**IS 280. Python. 3 Credit Hours.**
Python focuses on software development problem-solving methodologies utilizing current software design and development tools implemented in the Python programming language. Topics include data structures, program design, pseudocode, language control structures, procedures and functions, error handling, and object-oriented design. Assignments are developed in Python using a current Integrated Development Environment (IDE).
Prerequisites: Reading Proficiency

**IS 283. C# Programming III. 4 Credit Hours.**
Students in this course focus on completing the acquisition of the knowledge and skills for developing applications using Windows Forms, Windows Presentation Foundation (WPF) and the .NET Framework 4 in preparation for Microsoft's Microsoft Certified Technology Specialist (MCTS) .NET Framework 4, Windows Applications certification. Coursework will include developing Windows applications using the C# programming language to access data in Windows forms applications, create Windows services, utilize advanced user interface techniques, implement n-tier applications and implement web applications.
Prerequisites: IS 253 with a minimum grade of "C" and Reading Proficiency

**IS 285. Excel for Data Analytics. 3 Credit Hours.**
Excel for Data Analytics prepares students to use Excel to apply statistical techniques to identify hidden patterns in data. Topics include Power Query for data import, pivot tables, what-if analysis, charting, scripting and conditional formatting, data cleansing, reporting, and graphical data visualization with Tableau.
Prerequisites: IS 120 with a minimum grade of "C", concurrent or prior enrollment in MTH 160 (or MTH 160S) or MTH 180 (or MTH 180S) with a minimum grade of "C", and Reading Proficiency

**IS 287. Java Programming II. 4 Credit Hours.**
Java Programming II focuses on broadening and deepening the student's understanding of Object-Oriented Programming (OOP) as implemented in the Java language. Core elements include design and development of classes, overloading and overriding methods and constructors, inheritance, encapsulation, and interfaces. Course objectives align with Oracle's Certified Professional, Java SE Programmer certification.
Prerequisites: IS 153 or IS 167 or IS 187 or IS 256 or IS 166 with minimum grades of "C" and Reading Proficiency

**IS 288. Java Programming III. 4 Credit Hours.**
Students in this course complete their understanding of core java concepts required for Oracle's Java SE Programmer certification. Java web development utilizing the Model-View-Controller (MVC) pattern with Java Server Pages (JSP) and Servlets is also examined. Mobile access to web applications is introduced, and secure coding principles are emphasized.
Prerequisites: IS 287 with a minimum grade of "C" and Reading Proficiency

**IS 290. C# Frameworks: .NET Web App Framework. 3 Credit Hours.**
C# Frameworks: .NET Web App Framework teaches the .NET Web application framework using C#. Students expand their C# development skills and gain the knowledge and skills required to design and develop Web applications by using the latest version of the Microsoft .NET framework, including .NET Core and Microsoft Visual Studio. This course aligns with the "Developing ASP.NET MVC Web Applications" certification exam.
Prerequisites: IS 283 with a minimum grade of "C" and Reading Proficiency

**IS 291. Workplace Learning: Computer and Information Technology. 2-3 Credit Hours.**
Workplace Learning: Computer and Information Technology consists of a workplace assignment with an employer or agency, or an internship project. Students will complete a minimum of 100 hours and a maximum of 150 hours of internship during the semester, which allows the student to apply skills learned in the classroom. Students will have the opportunity to learn new skills and explore career possibilities while supervised by the employer and a faculty member. Students will also learn career readiness skills, resume writing, cover letter writing, interview techniques, and soft skills. This course is appropriate for students nearing completion of their IS degree and preparing for internship or employment.
Prerequisites: Enrollment in an IS program, department approval, and Reading Proficiency
Recommended Preparation: Portfolio is recommended

**IS 296. Java Frameworks: Spring. 3 Credit Hours.**
Java Frameworks: Spring focuses on the popular Java Spring Framework as a tool for rapid development of enterprise level systems. The integration of Spring with other frameworks such as Struts and Hibernate will also be examined. This course aligns with the SpringSource certification for the Core Spring Developer exam.
Prerequisites: IS 288 with a minimum grade of "C" and Reading Proficiency

# Information Technology (IT)

## Course Descriptions

**IT 100. Introduction to Cybersecurity. 1 Credit Hour.**
Introduction to Cybersecurity introduces the people, products, and processes that protect electronic data from those with malicious intent. This course will introduce students to various experts who discuss the concepts of cybersecurity including what it is, why it is important, and some of the products and processes that they use to secure data. Connections between the required courses in the Cybersecurity Program will be explored. The opportunities within this growing field will be covered. This course is not intended to teach students to implement security products and processes, but rather to make students aware of the global need for cybersecurity and the advancement in this industry. Cybersecurity requires a basic understanding of networking concepts. Supplemental information and activities for specific networking concepts are included where needed throughout the course.
Prerequisites: Reading Proficiency

**IT 101. Cisco Networking Academy I: Introduction to Networks. 5 Credit Hours.**
Cisco Networking Academy I: Introduction to Networks focuses on learning the fundamentals of networking. Practical and conceptual skills that build the foundation for understanding basic networking will be covered. This is the first of three (3) courses in preparation for the Cisco Certified Network Associate (CCNA) certification. (Credit is only allowed for either IT 101 or IT 501 or IT 589.)
Prerequisites: Reading Proficiency

**IT 102. Desktop Software Support - CompTIA A+ Core 2 (Software). 3 Credit Hours.**
Desktop Software Support - CompTIA A+ Core 2 (Software) prepares students to take the current CompTIA A+ software (Core 2) exam. Students will learn to implement, administer, and troubleshoot the Microsoft Windows client operating system. Topics include deploying software, managing upgrades, maintaining active directory accounts, troubleshooting systems, understanding operating system security, and network protocols. Windows, Linux, and mobile operating systems are covered.
Prerequisites: Reading Proficiency
Recommended Preparation: Basic computer literacy is expected

**IT 103. Help Desk Principles. 3 Credit Hours.**
This course focuses on key information and skills for user support professionals, including troubleshooting and problem solving, communicating successfully with clients, performing end-user needs analysis and assessment, and training end-users. With balanced coverage of both people skills and technical skills, this course is an excellent resource for those in or preparing for the technical support field.
Prerequisites: Reading Proficiency

**IT 120. Enterprise Security Management. 3 Credit Hours.**
Enterprise Security Management examines managerial aspects of computer security and assurance for enterprises. Topics include risk management, contingency planning, access control models, and information security governance including Federal Information Security Modernization Act (FISMA) compliance, program assessment, and metrics. The student will acquire knowledge of accreditation, certification, procurement, and operating principles for secure computing systems.
Prerequisites: IS 237 with a minimum grade of "C" and Reading Proficiency

**IT 121. Secure E-Commerce. 3 Credit Hours.**
Secure E-Commerce examines the principles and techniques for secure electronic commerce. Topics include cryptography, certification authorities, public key infrastructure, biometrics, digital signatures, and legal and national policy issues surrounding e-commerce.
Prerequisites: IS 229 and IS 237, both with a minimum grade of "C" and Reading Proficiency

**IT 201. Cisco Networking Academy II: Switching, Routing, and Wireless Essentials. 5 Credit Hours.**
Cisco Networking Academy II: Switching, Routing, and Wireless Essentials focuses on the architecture, components, and operations of routers and switches in a small network. Configuration of routers, switches, and wireless access points for basic functionality will be covered. This is the second of three (3) courses offered as preparation for the Cisco Certified Network Associate (CCNA) certification exam. (Credit is only allowed for either IT 201 or IT 502.)
Prerequisites: IT 101 with a minimum grade of "C", and Reading Proficiency

**IT 202. Cisco Networking Academy III: Enterprise Networking, Security, and Automation. 5 Credit Hours.**
Cisco Networking Academy III: Enterprise Networking, Security, and Automation focuses on hierarchical network design, Internet Protocol version 4 (IPv4) Open Shortest Path First (OSPF) single area routing, and Quality of Service (QoS) concepts. Configuring and securing enterprise network devices will be more fully developed. Application programming interfaces (APIs) will be introduced, as well as, the configuration management tools that make network automation possible. This is the third of three (3) courses in preparation for the Cisco Certified Network Associate (CCNA) certification. (Credit is only allowed for either IT 202 or IT 503.)
Prerequisites: IT 201 with a minimum grade of "C", and Reading Proficiency

**IT 208. Cisco Networking Academy: CCNA Security. 5 Credit Hours.**
Cisco Networking Academy: CCNA Security focuses on network security processes emphasizing hands-on skills for security policy design and management. This course emphasizes the skills needed for security technologies, security products and solutions; such as, firewall and secure router design, installation, configuration, maintenance, Authentication, Authorization, and Accounting (AAA) implementation using routers and firewalls. Securing the network at the Open Systems Interconnection (OSI) layers 2 and 3, stressing documentation, design, and installation are also emphasized. The knowledge gained here is an important step towards other certifications like the CCNP Security. (Credit is only allowed for either IT 208 or IT 528.)
Prerequisites: IT 201 with a minimum grade of "C" or a Cisco CCENT or CCNA certification and Reading Proficiency

**IT 211. Introduction to Virtualization and Cloud Computing. 3 Credit Hours.**
Introduction to Virtualization and Cloud Computing explores the installation, configuration, and management of virtualization tools, including VMware vSphere using ESXi and vCenter Server, and/or other leading virtualization solutions. Completion of this hands-on course prepares students to obtain recognized industry certifications, including the VMWare Certified Associate and VMWare Certified Professional.
Prerequisites: IT 201 with a minimum grade of "C", and Reading Proficiency

**IT 212. Ethical Hacking. 3 Credit Hours.**
Ethical Hacking examines the background, history, and theory of identifying potential threats on a computer or network by attempting to bypass system security and search for any weak points that could be exploited by malicious individuals or organizations. Hands-on activities using practical applications and real-life simulations to practice hacking techniques and methodologies will be used to find and attempt to exploit vulnerabilities of an organization's network infrastructure. Best countermeasures will be determined to improve security policies to protect information resources in an effort to minimize or eliminate any potential attacks. Communication skills and techniques for the cybersecurity workplace are emphasized throughout the course.
Prerequisites: IS 229 and IS 237 with minimum grades of "C", and Reading Proficiency

**IT 214. Systems Security Engineering. 3 Credit Hours.**
This course prepares the student to identify, evaluate, and prioritize potential threats, and manage and mitigate threats through risk management concepts, assessment activities, and monitoring terminology, techniques, and systems. Students will gain skills to properly respond to a security incident or forensic investigation with incident handling processes and procedures such as Business Continuity Planning (BPC) and Disaster Recovery Planning (DRP).
Prerequisites: IS 237 with a minimum grade of "C" and Reading Proficiency

**IT 215. Cloud Security. 3 Credit Hours.**
Cloud Security gives a broad overview of cloud security and allows students to gain critical experience and insights into issues such as data security, key management, and identity and access management. This course is provided by the Cisco Academy and prepares the student for the Certificate of Cloud Security Knowledge (CCSK) by Cloud Security Alliance, which is widely recognized as the standard of expertise for cloud security.
Prerequisites: IT 101 with a minimum grade of "C" and Reading Proficiency

**IT 216. Digital Forensics. 3 Credit Hours.**
Digital Forensics prepares students for digital crime scene investigation practices and digital evidence capture, documentation, validation, and preservation techniques through in-depth participatory exercises. Steganography, mobile data acquisition, network monitoring, decryption, and manual and automated file and password recovery techniques are taught.
Prerequisites: IS 229 and IS 237 with minimum grades of "C" and Reading Proficiency

**IT 221. AWS Cloud Foundations - AWS Cloud Practitioner. 3 Credit Hours.**
AWS Cloud Foundations - AWS Cloud Practitioner introduces students to cloud computing concepts, independent of specific technical roles. It provides a detailed overview of cloud concepts, AWS (Amazon Web Services) core services, security, architecture, pricing, and support. This course prepares the student for the AWS Certified Cloud Practitioner exam.
Prerequisites: IT 101 or CIT 125 with a minimum grade of "C" and Reading Proficiency

**IT 234. Principles of Incident Response and Disaster Recovery. 3 Credit Hours.**
Principles of Incident Response and Disaster Recovery examines detailed aspects of event reaction and the three areas of contingency planning: incident response, disaster recovery, and business continuity. This course focuses on developing and executing plans to deal with incidents in the organization as a critical function in information security. Additional focus will be on the execution of response to human and non-human incidents in compliance with these policies.
Prerequisites: IS 237 with a minimum grade of "C" and Reading Proficiency

**IT 235. Network Infrastructure Design. 3 Credit Hours.**
This course covers the skills and knowledge necessary for network design engineers. Topics include design of routed and switched network infrastructures and services involving LAN, WAN, and broadband access for organizations, including service virtualization. The Enterprise Composite Model facilitates planning, design, implementation, operation and optimization (PDIOO) through modular design and the relations between modules.
Prerequisites: IT 201 with a minimum grade of "C" and Reading Proficiency

**IT 250. Cisco Networking Academy: CCCA Cybersecurity Operations. 5 Credit Hours.**
The Cisco Networking Academy: CCCA Cybersecurity Operations covers knowledge and skills needed to handle the tasks, duties, and responsibilities of an associate-level Security Analyst working in a Security Operations Center (SOC). The course emphasizes best practices and provides hands-on experience needed to respond to security events to maintain and ensure security operational readiness of secure networked systems. This course prepares the student to take the Cisco Certified CyberOps Associate (CCCA) certification.
Prerequisites: IT 101 with a minimum grade of "C" and Reading Proficiency
Recommended Preparation: Basic Windows and Unix operating system knowledge is recommended, and the other Cisco courses, IT 201 and IT 202, are also very helpful

# Interdisciplinary Studies (IDS)

## Course Descriptions

**IDS 102. Urban Legends and American Society. 3 Credit Hours.**
This course allows students to explore and study urban legends in American society as well as the various contexts in which these myths are placed. Students have the opportunity to interpret the symbolic and social significance of urban legends as well as analyze its shaping and criticism of American Society.
Prerequisites: Reading Proficiency

# International Business (IB)

## Course Descriptions

**IB 100. International Business. 3 Credit Hours.**
International Business is a survey course which introduces a broad scope of international business concepts and issues. Throughout the course, students analyze the global environment in which international businesses operate. This course introduces the concept of globalization and its impact on multinational enterprises. Other topics covered include global competition, international organizations, treaties and theories of international trade, national trade policies, and the determinants of competitiveness of U.S. firms in international markets.
Prerequisites: Reading Proficiency

# Japanese (JPN)

## Course Descriptions

**JPN 101. Modern Japanese I (MOTR LANG 105). 4 Credit Hours.**
Modern Japanese I is a beginning course that presents sentence structure and vocabulary needed to communicate in basic Japanese conversations. Students also learn about the culture of Japan as they practice listening, speaking, reading, and writing in Japanese. (Credit is only allowed for either JPN 101 or JPN 103.)
Prerequisites: Reading Proficiency

**JPN 102. Modern Japanese II (MOTR LANG 106). 4 Credit Hours.**
Modern Japanese II is a continuation of Modern Japanese I. The course expands vocabulary and grammar, and encourages communication in Japanese using present and past tenses. Students learn about the culture of Japan as they practice listening, reading, writing, and speaking in Japanese. (Credit is only allowed for either JPN 102 or JPN 104.)
Prerequisites: JPN 101 with a minimum grade of "C" and Reading Proficiency

# Legal Studies (LGL)

## Course Descriptions

**LGL 110. Introduction to Law. 3 Credit Hours.**
Introduction to Law includes a general overview on the role of the law in modern society. The ethical and professional practice standards of the legal profession will be introduced. The legal process and the structures of Federal and Missouri Courts are examined. Several specific legal areas are surveyed including Tort, Contract, Property, Probate, Criminal and Administrative Law. (Credit is only allowed for either LGL 110 or LGL 108.)
Prerequisites: Reading Proficiency

**LGL 111. Law Office Management. 3 Credit Hours.**
Law Office Management is an introduction to the management of a law office and the role of the paralegal. It includes law office organization, communication and correspondence, trust accounting, conflicts management, marketing, physical and electronic file management, timekeeping and billing.
Prerequisites: Reading Proficiency

**LGL 112. Contract Law. 3 Credit Hours.**
Contract Law provides students with an overview of the elements required for an enforceable contract. The impact of the Statute of Frauds as well as the Uniform Commercial Code on contracts will be examined.
Prerequisites: Reading Proficiency

**LGL 113. Computers and the Law. 3 Credit Hours.**
Computers and the Law will help students become familiar with the use of technology in the legal profession. It includes a general introduction to various hardware and software systems used in law offices as well as by the courts. Emphasis is placed on hands-on experience with applications, locating factual and legal information using technology, as well as finding resources for continued acquisition of technical skills. (Credit is only allowed for either LGL 113 or LGL 106.)
Prerequisites: Reading Proficiency
Recommended Preparation: Prior computer experience strongly recommended

**LGL 202. Wills, Trusts, and Probate. 3 Credit Hours.**
Wills, Trusts, and Probate will provide an overview of the Estate Planning process and documents including Wills and Trusts. Students will draft Estate Plan documents. The students will use court forms for preparing Missouri Probate Administrations for decedent estates as well as for conservatorships and guardianships.
Prerequisites: LGL 110 or LGL 108 with a minimum grade of "C" and Reading Proficiency

**LGL 205. Real Estate Law. 3 Credit Hours.**
Real Estate Law is a study of the law of real property and in-depth survey of the more common types of real estate transaction and conveyances. Drafting problems involving various conveyance instruments are covered as well as the system for recording and searching public documents.
Prerequisites: LGL 110 or LGL 108 with a minimum grade of "C" and Reading Proficiency

**LGL 206. Administrative Law. 3 Credit Hours.**
Administrative Law provides an examination of the nature and authority of administrative agencies, the Administrative Procedures Act, rules and rule making, and administrative hearings. The student will examine the impact of various government regulations from Federal and Missouri agencies.
Prerequisites: LGL 110 or LGL 108 with a minimum grade of "C" and Reading Proficiency

**LGL 211. Tort Law. 3 Credit Hours.**
Tort Law is a study of the fundamental principles of the law of torts including special research assignments related to the subject matter. Consideration of the techniques of investigation involved in the lawyer's handling of tort claims and a study of the various forms of pleadings involved in commencing such claims in court actions.
Prerequisites: LGL 110 or LGL 108 with a minimum grade of "C" and Reading Proficiency

**LGL 217. Legal Research. 3 Credit Hours.**
Legal Research is an introduction to the process of legal research, legal analysis, as well as the connection between research and legal writing. Legal issues, appropriate sources of law for legal analysis, and proper citation to legal authority will be examined.
Prerequisites: LGL 110 or LGL 108 with a minimum grade of "C", ENG 100 or ENG 101 with a minimum grade of "C", and Reading Proficiency

**LGL 218. Legal Writing. 3 Credit Hours.**
Legal Writing is an introduction of the principles involved in legal analysis and the preparation of legal documents.
Prerequisites: LGL 217 with a minimum grade of "C" and Reading Proficiency

**LGL 228. Family Law. 3 Credit Hours.**
Family Law introduces statutory and case law regarding the dissolution of marriage action, termination of parental rights, adoption law, court appointment of guardians, and guardian ad litem. Topics will include client interviewing and counseling. Necessary documentation, discovery tools, and court forms required for filing as well as methods for determining the timing and venue for filings, will be examined. (Credit is only allowed for either LGL 228 or LGL 208.)
Prerequisites: LGL 110 or LGL 108 with a minimum grade of "C" and Reading Proficiency
Recommended Preparation: Recommended that LGL 235 be completed prior to enrolling in this course

**LGL 230. Employment Law. 3 Credit Hours.**
Employment Law will examine the employer and employee relationship and the laws governing the employment agreement. This course will include the specific areas of employment discrimination, Worker's Compensation, and regulation of union activity. (Credit is only allowed for either LGL 230 or LGL 213.)
Prerequisites: LGL 110 or LGL 108 with a minimum grade of "C" and Reading Proficiency

**LGL 235. Civil Litigation. 3 Credit Hours.**
Civil Litigation focuses on the stages and preparation for civil trial. Litigation documents including pleadings, discovery documents and motions will be examined. The rules of evidence and the rules of civil procedure will be introduced. (Credit is only allowed for either LGL 235 or LGL 104.)
Prerequisites: LGL 110 or LGL 108 with a minimum grade of "C" and Reading Proficiency

**LGL 236. Topics in Law. 3 Credit Hours.**
Topics in Law is a study of a selected area of law or current topics in law. This course will provide an opportunity to explore a specific areas of law such as Criminal Law, Cyber Law, Elder Law, Immigration Law, Intellectual Property, or other current legal issues in greater detail.
Prerequisites: LGL 110 or LGL 108 with a minimum grade of "C" and Reading Proficiency

**LGL 240. Advanced Civil Litigation. 3 Credit Hours.**
Advanced Civil Litigation is designed as an advanced course for those students who have completed Civil Litigation. The focus will be a detailed examination of court rules pertaining to discovery, civil trial procedures and preparation as well as appellate procedures. (Credit is only allowed for either LGL 240 or LGL 216.)
Prerequisites: LGL 235 or LGL 104 with a minimum grade of "C", and Reading Proficiency

**LGL 290. Workplace Learning: Paralegal. 3 Credit Hours.**
Workplace Learning: Paralegal is an experiential course that provides the student the opportunity to apply theory and skills learned in the classroom, learn new skills, and explore career possibilities while supervised by a professional in the field and a faculty member. Students will observe and participate in the functions of the business to enhance their preparation for entering the field. Minimum 150 hours in the workplace throughout the term. (Credit is allowed for only one of the following courses: LGL 290, LGL 280, or LGL 219.)
Prerequisites: Approval of the campus program coordinator and Reading Proficiency

# Library & Information Studies (LIB)

## Course Descriptions

**LIB 101. Introduction to Library and Online Research. 1 Credit Hour.**
Introduction to Library and Online Research introduces the research process, including strategies and tools recommended for successful college-level work. Students will explore a variety of resources, including the open web, online library databases, and the library catalog. Through a combination of hands-on practice and lectures, students will learn to locate, evaluate, and manage information efficiently and effectively.
Prerequisites: Reading Proficiency

# Licensed Practical Nursing (LPN)

## Course Descriptions

**LPN 101. Foundations of Practical Nursing I. 9 Credit Hours.**
Foundations of Practical Nursing I is an introduction to the role of the practical nurse. The course reviews fundamental content for a beginning nursing student to acquire a foundation of basic nursing theory. Students will explore the role of a licensed practical nurse as a member of the multidisciplinary healthcare team. Students will perform skills related to coordinating care of the adult and geriatric clients and family. The students will relate skills to physical, biological, and behavioral health sciences.
Prerequisites: Enrollment in the Licensed Practical Nursing Program, PSY 200, PSY 205, BIO 207, and BIO 208 with minimum grades of "C", Math Proficiency at or above MTH 140, MTH 160, MTH 161, MTH 170, MTH 185 or higher, or completion of MTH 140S with a minimum grade of "C", and Reading Proficiency
Corequisites: LPN 102 and LPN 103

**LPN 102. Practical Nursing Lab. 2 Credit Hours.**
Practical Nursing Lab is designed to provide the practical nursing student the ability to practice nursing skills in the college nursing laboratory and reinforce principles introduced in Foundations of Practical Nursing I. Practicum lab skills include performing basic nursing skills to meet the physiological needs of a client related to hygiene, infection control, safety, mobility, oxygenation, nutrition, and elimination. Practicum lab skills will focus on medication administration and intravenous therapy.
Prerequisites: Enrollment in the Licensed Practical Nursing Program, PSY 200, PSY 205, BIO 207, and BIO 208 with minimum grades of "C", Math Proficiency at or above MTH 140, MTH 160, MTH 161, MTH 170, MTH 185 or higher, or completion of MTH 140S with a minimum grade of "C", and Reading Proficiency
Corequisites: LPN 101 and LPN 103

**LPN 103. Practical Vocational Concepts. 1 Credit Hour.**
Practical Vocational Concepts explores the role of the licensed practical nurse. Concepts reviewed include historical aspects of the licensed practical nurse, nursing theory, legal and ethical aspects, leadership and management, and delegation. This course also introduces the student to professional organizations and standards in healthcare. The course will encourage the student's self-awareness while introducing concepts related to cultural diversity and life-long learning.
Prerequisites: Enrollment in the Licensed Practical Nursing Program, PSY 200, PSY 205, BIO 207, and BIO 208 with minimum grades of "C", and Reading Proficiency
Corequisites: LPN 101 and LPN 102

**LPN 104. Foundations of Practical Nursing II. 9 Credit Hours.**
Foundations of Practical Nursing II addresses concepts related to the role of the licensed practical nurse. Concepts addressed in the course include patient care, advocacy, patient teaching, cultural competency, legal and ethical competency, patient safety, nutrition, and pharmacology. The student will examine the foundations of medical-surgical nursing and maternal-child nursing.
Prerequisites: LPN 101 and 103 with minimum grades of "C", LPN 102 with a grade of "S", and Reading Proficiency
Corequisites: NUR 180

# Magnetic Resonance Imaging (MRI)

## Course Descriptions

**MRI 101. Magnetic Resonance Imaging Clinical Applications I. 5 Credit Hours.**
Magnetic Resonance Imaging (MRI) Clinical Applications I provides an introduction to the fundamentals of magnetic resonance image production. Students learn the characteristics of common image weightings, including T1, T2, and proton density. The components and steps of MRI pulse sequences are presented and students learn to diagram pulse sequences. The similarities and differences between spin echo and gradient echo pulse sequences are discussed. Students learn about intrinsic and extrinsic MRI scan parameters, including time to repetition, time to echo, and flip angle. Students learn to adjust scan parameters to control image weighting, image quality, and scan duration. Flow mechanisms and phenomena are presented, and angiographic imaging using time of flight enhancement is explained. Students learn about tissue saturation and how to select pulse sequences and adjust scan parameters to nullify signal from target tissues.
Prerequisites: Entry into the Magnetic Resonance Imaging Program and Reading Proficiency

**MRI 102. Magnetic Resonance Imaging Anatomy & Pathology I. 3 Credit Hours.**
Magnetic Resonance Imaging (MRI) Anatomy Pathology I provides an introduction to cross-sectional anatomy and viewing the human body in multiple imaging planes. Image orientations and the characteristics of transverse, sagittal, coronal, and oblique planes are discussed. Students learn to identify normal anatomical structures and abnormal pathophysiological processes within the brain, the nervous system, the cervical spine, the thoracic spine, the lumbar spine, and the sacrum. Common indications for performing MRI of these body regions are also detailed.
Prerequisites: Entry into the Magnetic Resonance Imaging Program and Reading Proficiency

**MRI 103. Magnetic Resonance Imaging Instrumentation I. 3 Credit Hours.**
Magnetic Resonance Imaging (MRI) Instrumentation I provides an introduction to the technical components of MRI hardware and how these elements interact during image production. Students learn about the common types of main magnet systems and explore differences in their operation. Additional system components, including gradient coils, radiofrequency coils, shimming systems, and shielding systems, are studied.
Prerequisites: Entry into the Magnetic Resonance Imaging Program and Reading Proficiency

**MRI 104. Magnetic Resonance Imaging Safety & Patient Care I. 3 Credit Hours.**
Magnetic Resonance Imaging (MRI) Safety Patient Care I provides an introduction to appropriate care and safety for all individuals within the MRI environment. Best practices for departmental safety policies and procedures are described. Students learn about the levels of MRI personnel and their associated qualifications and responsibilities. The categories and characteristics of safe, unsafe, and conditional objects and medical devices are detailed, and students learn how to obtain device information. Students learn about safety risks and appropriate signage associated with each of the four MRI zones. Hazards and adverse outcomes associated with operation of imaging equipment are also described, including exposures to static and time-varying magnetic fields, acoustic noise, and cryogens. Students learn the components of effective safety screening and simulate screening procedures.
Prerequisites: Entry into the Magnetic Resonance Imaging Program and Reading Proficiency

**MRI 105. Magnetic Resonance Imaging Physics I. 3 Credit Hours.**
Magnetic Resonance Imaging (MRI) Physics I introduces students to the physical principles involved in magnetic resonance image formation. The concepts of magnetism, electromagnetism, magnetic permeability, and magnetic susceptibility are explored. Students learn how to calculate the intensity of magnetic fields. Students learn how radiofrequency excitation produces MRI signals which are detected and encoded for image formation. The mechanisms and timing for T1 relaxation and T2 decay are introduced and compared. Students explore differences in intrinsic tissue properties and how differences in signal intensity affect tissue appearance on magnetic resonance images.
Prerequisites: Entry into the Magnetic Resonance Imaging Program and Reading Proficiency

**MRI 201. Magnetic Resonance Imaging Clinical Applications II. 2 Credit Hours.**
Magnetic Resonance Imaging (MRI) Clinical Applications II reinforces and expands on concepts introduced in MRI 101. Advanced imaging techniques, including diffusion weighted imaging, perfusion imaging, and functional MRI are introduced. Students learn the clinical applications of MRI contrast media for image enhancement. Timing mechanisms for dynamic contrast media enhancement are described. Students learn to identify physiologic image artifacts and to apply correction techniques to improve image quality.
Prerequisites: MRI 101 with a minimum grade of "C" and Reading Proficiency

**MRI 202. Magnetic Resonance Imaging Anatomy & Pathology II. 2 Credit Hours.**
Magnetic Resonance Imaging (MRI) Anatomy Pathology II reinforces concepts introduced in MRI 102 and expands to cover additional body regions and systems. Students learn to identify normal anatomical structures and pathophysiological processes within the musculoskeletal system and the cardiovascular system, as well as organs of the chest, the abdomen, and the pelvis. Common indications for performing MRI of these body regions are also detailed.
Prerequisites: MRI 102 with a minimum grade of "C" and Reading Proficiency

**MRI 203. Magnetic Resonance Imaging Instrumentation II. 2 Credit Hours.**
Magnetic Resonance Imaging (MRI) Instrumentation II reinforces and continues the concepts introduced in MRI 103. Students explore the purpose and frequency of quality control procedures that are performed on MRI hardware components. The relationship between hardware malfunction and image artifacts is explained. Students learn best practices for MRI department design and layout, and their impact on procedural workflows. Departmental quality assurance practices and techniques are also introduced.
Prerequisites: MRI 103 with a minimum grade of "C" and Reading Proficiency

**MRI 204. Magnetic Resonance Imaging Safety & Patient Care II. 2 Credit Hours.**
Magnetic Resonance Imaging (MRI) Safety Patient Care II expands on concepts introduced in MRI 104. The characteristics and applications of MRI contrast media are presented, including categories of contrast media and best practices for safe administration. Topics include vascular access device identification and selection, contrast media extravasation, and reactions to contrast media administration. Emergent situations in the MRI environment and applicable response activities are discussed.
Prerequisites: MRI 104 with a minimum grade of "C" and Reading Proficiency

**MRI 205. Magnetic Resonance Imaging Physics II. 2 Credit Hours.**
Magnetic Resonance Imaging (MRI) Physics II builds on the concepts introduced in MRI 105 and explores advanced topics in magnetic resonance image formation. Physical and mathematical principles for slice selection, phase encoding, and frequency encoding are applied to signal formation. Students learn how Fourier transformation is used to convert MRI signals between time and frequency domains. The characteristics of data space and k-space are discussed, and differences in signal storage between the two spaces are explained. Students apply mathematical calculations to determine scan parameters for a given pulse sequence, including slice thickness, maximum number of slices, field of view, pixel size, and sampling interval.
Prerequisites: MRI 105 with a minimum grade of "C" and Reading Proficiency

**MRI 211. Magnetic Resonance Imaging Practicum I. 3 Credit Hours.**
Magnetic Resonance Imaging (MRI) Practicum I introduces students to the MRI clinical environment. Students are placed in a clinical setting under the direct supervision of a registered MRI technologist where they observe departmental operational workflows, MRI safety practices, and a variety of MRI procedures. Students are introduced to quality control procedures performed on MRI systems and ancillary equipment. Students correlate their concurrent didactic education and training with real-world clinical experiences.
Prerequisites: MRI 101, MRI 102, MRI 103, MRI 104, and MRI 105 with minimum grades of "C" and Reading Proficiency

**MRI 212. Magnetic Resonance Imaging Practicum II. 5 Credit Hours.**
Magnetic Resonance Imaging (MRI) Practicum II advances the clinical experience of students in the MRI Program. Students are placed in a clinical setting under the direct supervision of a registered MRI technologist where they assist with MRI safety screenings and a variety of MRI procedures. Students review pertinent laboratory values and assess the patency of venous access devices prior to administering MRI contrast media. Students determine the volume of contrast media to be administered and prepare for administration through hand injection or power injector methods.
Prerequisites: MRI 211 with a minimum grade of "C" and Reading Proficiency

**MRI 213. Magnetic Resonance Imaging Practicum III. 4 Credit Hours.**
Magnetic Resonance Imaging (MRI) Practicum III is the culmination of the clinical experience for students in the MRI Program. Students are placed in a clinical setting under the supervision of a registered MRI technologist where they perform all aspects of a variety of MRI procedures. Students plan and execute the imaging protocol and administer contrast media per organizational guidelines. Students review acquired images for quality and artifacts. All procedures are documented to satisfy eligibility requirements for the American Registry of Radiologic Technologists MRI registry examination.
Prerequisites: MRI 212 with a minimum grade of "C" and Reading Proficiency

**MRI 214. Magnetic Resonance Imaging Capstone. 3 Credit Hours.**
Magnetic Resonance Imaging (MRI) Capstone is a comprehensive review of fundamental concepts and materials learned throughout the MRI Program. Students demonstrate their knowledge and comprehension of key MRI content areas, including image formation and processing, cross-sectional anatomy, primary and secondary hardware systems, clinical procedures, and patient safety. Students complete summative assessments in written, oral, and simulation formats to prepare for MRI Program completion and to assess readiness for the American Registry of Radiologic Technologists MRI registry examination.
Prerequisites: MRI 212 with a minimum grade of "C" and Reading Proficiency

# Management (MGT)

## Course Descriptions

**MGT 101. Introduction to Supervision. 3 Credit Hours.**
This course is designed to provide the student with the latest leadership skills to function as a supervisor in today's modern organizations. Special emphasis is placed on coaching, motivation, positive reinforcement, achieving high productivity and the latest court decisions and laws that affect management decisions. This course will give the student confidence and skills needed to succeed in today's workplace.
Prerequisites: Reading Proficiency

**MGT 204. Business Organization and Management. 3 Credit Hours.**
Business Organization and Management is the study of basic managerial concepts, environmental issues, and the management functions of planning, organizing, leading, hiring, and controlling in contemporary organizations.
Prerequisites: BUS 104 with a minimum grade of "C" and Reading Proficiency

# Marketing (MKT)

## Course Descriptions

**MKT 203. Principles of Marketing. 3 Credit Hours.**
Principles of Marketing examines the essential functions of the strategic marketing process including the marketing analysis of business opportunities and subsequent development of marketing strategies.
Prerequisites: BUS 104 and ECO 152 with minimum grades of "C", and Reading Proficiency

# Mass Communications (MCM)

## Course Descriptions

**MCM 101. Introduction to Mass Communications (MOTR SBSC 100). 3 Credit Hours.**
Introduction to Mass Communications examines the nature and influence of mass media in our society. Students will analyze the impact media has throughout the world. Topics include mass media foundations, media's role in culture, ethics, influence on society, media methods, controls, gatekeeping, and world impact.
Prerequisites: Reading Proficiency

**MCM 102. Media Literacy. 3 Credit Hours.**
This course focuses on approaches through which students can develop a sensitivity to media messages, as well as enhance their appreciation of media programming. This course devotes attention to the process and impact of media on the individual and society. The class analyzes applied media formats, including journalism, advertising, and political communication.
Prerequisites: Reading Proficiency

**MCM 110. Journalism I: Writing and Reporting. 3 Credit Hours.**
Contemporary newspaper writing and reporting techniques will be covered in this introductory course through discussions, readings, and practical exercises. The concepts of news coverage in the American press will be emphasized. Students are required to write news stories on a regular basis and apply skills in multimedia concepts.
Prerequisites: ENG 100 or ENG 101 with a minimum grade of "C" or permission of instructor and Reading Proficiency

**MCM 112. Feature Writing. 3 Credit Hours.**
Students will be exposed to the professional and marketing possibilities of feature writing. They will learn the theories and techniques of writing features for contemporary print and digital publications. Students are required to write and edit on a regular basis.
Prerequisites: ENG 100 or ENG 101 with a minimum grade of "C" or permission of the instructor and Reading Proficiency

**MCM 115. Acting for the Camera. 3 Credit Hours.**
This course includes the following (1) exploration of the aesthetics and principles of acting for the camera; (2) analysis of diverse acting styles and outstanding performances in film and television; and (3) acting exercises for the camera. Some acting exercises will be videotaped and edited for analysis. (Same course as THT 115).
Prerequisites: Reading Proficiency

**MCM 122. Applied Broadcasting. 3 Credit Hours.**
This is a skills-content course in which students will develop skills in broadcasting principles and practice. It may include the campus radio and/or television facilities.
Prerequisites: Reading Proficiency

**MCM 124. Digital Audio Production. 3 Credit Hours.**
Digital Audio Production introduces students to the basic professional theory and digital audio production techniques. Students will develop and refine skills applicable to several media-focused career paths through lectures and hands-on experiences.
Prerequisites: Reading Proficiency
Recommended Preparation: MCM 101

**MCM 125. Scriptwriting. 3 Credit Hours.**
Scriptwriting provides beginning students with practical instruction in the fundamentals of scriptwriting for film, TV, streaming series, and other digital media. Basic terminology and script formats are presented. A variety of script types are crafted, analyzed, and creatively revised.
Prerequisites: ENG 101 with a minimum grade of "C", and Reading Proficiency

**MCM 126. Video Production - Field. 3 Credit Hours.**
Video Production - Field addresses video skills in all stages of production. Students will learn how to script for news and general interest stories, lighting and camera shooting with single camera and smart devices, non-linear editing, and graphics.
Prerequisites: Reading Proficiency

**MCM 130. Film Appreciation (MOTR FILM 100). 3 Credit Hours.**
Film Appreciation offers an introduction to the art, industry, culture, and experience of movies. Students study a variety of films, contemporary and classic, narrative and non-narrative, American and international.
Prerequisites: Reading Proficiency

**MCM 131. History of Film (MOTR FILM 103). 3 Credit Hours.**
History of Film introduces world film history from the origins of motion pictures to contemporary films. Students examine technical, artistic, cultural, and economic aspects of fiction and nonfiction films. Topics include diverse cinematic styles and movements as well as recurring themes.
Prerequisites: Reading Proficiency

**MCM 132. Major Themes in Film. 3 Credit Hours.**
Each semester this course focuses on one film theme or type. Examples include Academy Award winning films, animation, comedy, musicals, westerns, and women in film. Classes include discussion, written analysis, and/or oral presentations, and in-class screenings or online viewings of films illustrating the semesters' topic. This course may be retaken for credit with different topics.
Prerequisites: Reading Proficiency

**MCM 134. Introduction to Filmmaking (MOTR PERF 107). 3 Credit Hours.**
Introduction to Filmmaking teaches students the fundamentals of short filmmaking and editing. Topics include camera operation, lighting, exposure control, sound recording, plus digital postproduction. Exercises explore how technique relates to aesthetic quality. Access to equipment is provided.
Prerequisites: Reading Proficiency

**MCM 140. Introduction to Advertising. 3 Credit Hours.**
Students learn about advertising theories and techniques by studying history, functions, the importance of marketing, behavioral science, and aesthetics. Topics include ad agency organization, campaign planning, and media placement and production (radio, television, print, point of purchase). This will be accomplished through lectures, discussions, and campaign analysis.
Prerequisites: Reading Proficiency

**MCM 141. Public Relations. 3 Credit Hours.**
This introductory course focuses on the work of the public relations practitioner as communications specialist. Topics include the techniques of effective public relations and the demands of the field. Students will explore the ways segments of the public form opinions and the ways public relations should influence that attitude building. Students also write press releases and examine field/case studies.
Prerequisites: Reading Proficiency

**MCM 219. Multimedia Applications. 1-3 Credit Hours.**
This course covers selected topics in multimedia production. Students use state-of-the-art equipment to produce beginning, intermediate or advanced projects in the area emphasized. Topics may include, but are not limited to, nonlinear video editing, video animation, digital audio production, etc. Course may be retaken for credit with different topics.
Prerequisites: Reading Proficiency

# Mathematics (MTH)

## Course Descriptions

**MTH 020. Pre Algebra. 3 Credit Hours.**
This course is for students who need to review the basic fundamentals of mathematics. Topics include operations on whole numbers, fractions, decimals, percents, signed numbers, word problem applications and an introduction to algebra. (Credit is only allowed for either MTH 020 or MTH 001.)

**MTH 108. Elementary Applied Mathematics. 3 Credit Hours.**
This course will include a review of fractions, decimals and percents. Topics may include ratios, proportions, measurements, metrics, powers, roots, simple equations, estimation, graphs, and applications relevant to many Associate in Applied Science programs. All prerequisite courses must have been completed within the last 3 years.
Prerequisites: Reading Proficiency

**MTH 109. Medical Math. 3 Credit Hours.**
Medical Math helps students build the mathematical skills necessary to be successful in the nursing program, some health science programs, and beginning science courses. Students utilize proportional reasoning and problem-solving strategies to address problems in context. Topics include units of measurement and dimensional analysis, formulas, percents, scientific notation, and medication dosages.
Prerequisites: Reading Proficiency

**MTH 110. Introductory Statistics (MOTR MATH 110). 3 Credit Hours.**
Introductory Statistics introduces the student to the elementary mathematics of descriptive statistics, probability, and statistical inference. Topics include methods of data collection, organization, and representation, measures of center and variation, elementary probability theory, probability distributions, the central limit theorem, confidence intervals, hypothesis testing, correlation, and regression analysis. (Credit will only be granted for MTH 110, MTH 110S, MTH 180, or MTH 180S.)
Prerequisites: Satisfactory scores on placement test, and Reading Proficiency

**MTH 110S. Introductory Statistics with Support (MOTR MATH 110). 5 Credit Hours.**
Introductory Statistics with Support introduces the student to the elementary mathematics of descriptive statistics, probability, and statistical inference. Topics include methods of data collection, organization, and representation, measures of center and variation, elementary probability theory, probability distributions, the central limit theorem, confidence intervals, hypothesis testing, correlation, and regression analysis. (Credit will be granted for only one of the following MTH 110, MTH 110S, MTH 180, or MTH 180S. Only 3 credits from this course will apply toward a degree.)
Prerequisites: Reading Proficiency

**MTH 120. Quantitative Reasoning (MOTR MATH 120). 3 Credit Hours.**
Quantitative Reasoning provides a comprehensive overview of the quantitative skills required to navigate the mathematical demands of modern life and to prepare students for a deeper understanding of information presented in mathematical terms. Emphasis is placed on improving students' ability to draw conclusions, make decisions, and communicate effectively in quantitative-based situations that depend upon multiple factors. (Credit will be granted for only one of the following MTH 120, MTH 120S, MTH 161, or MTH 161S. Only 3 credits from this course will count toward a degree.)
Prerequisites: Satisfactory score on placement test and Reading Proficiency

**MTH 120S. Quantitative Reasoning with Support (MOTR MATH 120). 5 Credit Hours.**
Quantitative Reasoning with Support provides a comprehensive overview of the quantitative skills required to navigate the mathematical demands of modern life and to prepare students for a deeper understanding of information presented in mathematical terms. Emphasis is placed on improving students' ability to draw conclusions, make decisions, and communicate effectively in quantitative-based situations that depend upon multiple factors. (Credit will be granted for only one of the following MTH 161S, MTH 161, MTH 120, or MTH 120S. Only 3 credits from this course will apply toward a degree.)
Prerequisites: Reading Proficiency

**MTH 140. Intermediate Algebra. 3 Credit Hours.**
Intermediate Algebra prepares students for the Precalculus Algebra course. Operations on rational expressions, operations on radicals, solving quadratic equations, and the rectangular coordinate system are among the topics covered. All prerequisite courses or placement measures must have been completed within the last 3 years. (Credit will be granted for only one of the following: MTH 140 or MTH 140S.)
Prerequisites: Satisfactory placement and Reading Proficiency

**MTH 140S. Intermediate Algebra with Support. 5 Credit Hours.**
Intermediate Algebra with Support covers the algebra topics needed for students to transition from beginning algebra into a Precalculus course. Operations on rational expressions, operations on radicals, solving quadratic equations, and the rectangular coordinate system are among the topics covered. (Credit will be granted for only one of the following: MTH 140S or MTH 140. Only 3 credits from this course will apply toward a degree or certificate.)
Prerequisites: Reading Proficiency

**MTH 160. Precalculus Algebra (MOTR MATH 130). 3 Credit Hours.**
Precalculus Algebra is a college algebra course and one of the prerequisites on the STEM pathway leading to Calculus. It includes the following topics: theory of equations; functions and graphs including parabolas, polynomials, rationals, exponentials, and logarithms; and systems of equations and inequalities. Applications will be primarily from science and business. (Credit is allowed for only one of the following courses: MTH 160, MTH 160A, MTH 160B, MTH 160C, MTH 160S, or MTH 185.)
Prerequisites: MTH 140 (or MTH 140S) with a minimum grade of "C" or satisfactory score on placement test, and Reading Proficiency

**MTH 160S. Precalculus Algebra with Support (MOTR MATH 130). 5 Credit Hours.**
Precalculus Algebra with Support is a college algebra course and one of the prerequisites on the STEM pathway leading to Calculus. It covers all of the content from MTH 160 in addition to some prerequisite topics. The following topics are covered: factoring; rational expressions; radicals; theory of equations; functions and graphs, including parabolas, polynomials, rationals, exponentials, and logarithms; and systems of equations and inequalities. Applications will be primarily from science and business. (Credit is allowed for only one of the following courses: MTH 160S, MTH 160, MTH 160A, MTH 160B, MTH 160C, or MTH 185. Only 3 credits from this course will apply toward a degree.)
Prerequisites: Satisfactory score on placement test and Reading Proficiency

**MTH 161. Quantitative Reasoning (MOTR MATH 120). 3 Credit Hours.**
Quantitative Reasoning provides a comprehensive overview of the quantitative skills required to navigate the mathematical demands of modern life and to prepare students for a deeper understanding of information presented in mathematical terms. Emphasis is placed on improving students' ability to draw conclusions, make decisions, and communicate effectively in quantitative-based situations that depend upon multiple factors. (Credit will be granted for only one of the following MTH 161 or MTH 161S.)
Prerequisites: Satisfactory score on placement test and Reading Proficiency

**MTH 161S. Quantitative Reasoning with Support (MOTR MATH 120). 5 Credit Hours.**
Quantitative Reasoning with Support provides a comprehensive overview of the quantitative skills required to navigate the mathematical demands of modern life and to prepare students for a deeper understanding of information presented in mathematical terms. Emphasis is placed on improving students' ability to draw conclusions, make decisions, and communicate effectively in quantitative-based situations that depend upon multiple factors. (Credit will be granted for only one of the following MTH 161S or MTH 161. Only 3 credits from this course will apply toward a degree.)
Prerequisites: Reading Proficiency

**MTH 170. Precalculus Trigonometry. 3 Credit Hours.**
Precalculus Trigonometry is a trigonometry course and one of the prerequisites on the STEM pathway leading to calculus. It uses an analytic approach to the definitions and graphs of the functions of an angle. It includes formulas and identities, trigonometric functions, inverse functions, and radian measure. Note: Credit will not be granted for both MTH 170 and MTH 185. All prerequisite courses must have been completed within the last 3 years.
Prerequisites: MTH 160 or MTH 160S with a minimum grade of "C" or satisfactory score on placement test, and Reading Proficiency

**MTH 177. Finite Mathematics. 4 Credit Hours.**
Finite Mathematics is the study of the mathematics of finance, matrices, linear programming, and probability, as well as the use of these concepts to model several types of applications. Prerequisite courses must have been completed within the last three years.
Prerequisites: MTH 160, MTH 160A, MTH 160B, MTH 160C, or MTH 160S with grade of "C" or better and Reading Proficiency

**MTH 180. Introductory Statistics (MOTR MATH 110). 3 Credit Hours.**
Introductory Statistics introduces the student to the elementary mathematics of descriptive statistics, probability, and statistical inference. Topics include methods of data collection, organization, and representation, measures of center and variation, elementary probability theory, probability distributions, the central limit theorem, confidence intervals, hypothesis testing, correlation, and regression analysis. (Credit will only be granted for MTH 180 or MTH 180S.)
Prerequisites: Satisfactory scores on placement test, and Reading Proficiency

**MTH 180S. Introductory Statistics with Support (MOTR MATH 110). 5 Credit Hours.**
Introductory Statistics with Support introduces the student to the elementary mathematics of descriptive statistics, probability, and statistical inference. Topics include methods of data collection, organization, and representation, measures of center and variation, elementary probability theory, probability distributions, the central limit theorem, confidence intervals, hypothesis testing, correlation, and regression analysis. (Credit will be granted for only one of the following MTH 180S or MTH 180. Only 3 credits from this course will apply toward a degree.)
Prerequisites: Reading Proficiency

**MTH 185. Precalculus (MOTR MATH 150). 5 Credit Hours.**
Precalculus is one of the prerequisites on the STEM pathway leading to calculus. This course is a unified study of college algebra and trigonometry. Emphasis is placed on the development of algebraic and trigonometric concepts. The topics include graphing algebraic, exponential, logarithmic, and trigonometric functions; solving algebraic and trigonometric equations; solving systems of equations; and verifying trigonometric identities. Note: Students will be granted credit for either MTH 185, or MTH 160 (or MTH 160S) and MTH 170.
Prerequisites: MTH 140 (or MTH 140S) with a minimum grade of "C" or satisfactory score on placement test, and Reading Proficiency

**MTH 186. Survey of Calculus. 4 Credit Hours.**
Topics included are limits and continuity of functions of a single variable; derivatives and antiderivatives of algebraic, exponential, and logarithmic functions; and business oriented applications. All prerequisite courses must have been completed within the last 3 years.
Prerequisites: MTH 160 or MTH 160S with grade of "C" or better and Reading Proficiency

**MTH 210. Analytic Geometry and Calculus I. 5 Credit Hours.**
This course is the first part of a three semester sequence of Calculus. Topics included are limits and continuity of functions of a single variable, derivatives and antiderivatives of algebraic functions and trigonometric functions, and applications. All prerequisite courses must have been completed within the last 3 years.
Prerequisites: MTH 185 or (MTH 160 or MTH 160S and MTH 170) with grades of "C" or better or satisfactory score on placement test and Reading Proficiency

**MTH 215. Linear Algebra. 3 Credit Hours.**
This course covers systems of linear equations, properties of matrices and determinants, vector spaces, linear transformations, inner products, and eigenvalues, as well as selected applications. All prerequisite courses must have been completed within the last 3 years.
Prerequisites: MTH 210 with a grade of "C" or better and Reading Proficiency

**MTH 220. Analytic Geometry and Calculus II. 5 Credit Hours.**
This course is the second part of a three sequence of Calculus. Differentiation and integration of transcendental functions, techniques of integration, improper integrals, parametric equations, polar coordinates, and infinite and power series are among the topics covered. All prerequisite courses must have been completed within the last 3 years.
Prerequisites: MTH 210 with a grade of "C" or better and Reading Proficiency

**MTH 230. Analytic Geometry and Calculus III. 5 Credit Hours.**
This course is the third part of a three semester sequence of Calculus. Topics covered include solid analytic geometry, vectors in two and three dimensions, differential calculus of multivariate functions, partial derivatives, directional derivatives, gradients, multiple integration, and an introduction to the calculus of vector fields. All prerequisite courses must have been completed within the last 3 years.
Prerequisites: MTH 220 with a grade of "C" or better and Reading Proficiency

**MTH 240. Differential Equations. 3 Credit Hours.**
This course introduces methods of solving ordinary differential equations. Topics included are first order differential equations, higher order differential equations, LaPlace transform methods, systems of differential equations, and applications. All prerequisite courses must have been completed within the last 3 years.
Prerequisites: MTH 230 with a grade of "C" or better and Reading Proficiency

# Mechanical Engineering Technology (ME)

## Course Descriptions

**ME 100. Measurement, Materials and Safety. 3 Credit Hours.**
This course prepares students for the National Institute of Metalworking Skills (NIMS) Measurement, Materials and Safety credentialing examination. Students will learn foundational skills for the metalworking industry including the basics of metal cutting, measurement, safety and shop math. Additional hours required.
Prerequisites: Departmental approval or Work Keys Applied Mathematics Level 4, or, Reading Proficiency or Work Keys Reading for Information Level 4
Corequisites: ME 154

**ME 101. Welding Technology. 3 Credit Hours.**
Welding Technology provides comprehensive coverage of current welding practices. A variety of welding processes will be covered including arc-welding, Oxyacetylene welding, MIG welding, and TIG welding. (Credit is only allowed for either ME 101 or WEL 150.)
Prerequisites: Reading Proficiency

**ME 110. HVAC Operator I. 3 Credit Hours.**
HVAC Operator I teaches the basic operation, maintenance, and troubleshooting of heating, ventilating and air conditioning (HVAC) equipment including air, closed water stream, and control systems. Students will study the dynamic equipment components of various systems with special emphasis upon preventive maintenance. This course prepares the student to take the EPA Section 608 Certification.
Prerequisites: Reading Proficiency

**ME 111. Job Planning, Benchwork & Layout. 3 Credit Hours.**
This course prepares students for the National Institute of Metalworking Skills (NIMS) Job Planning, Benchwork Layout credentialing examination. Students will build upon skills learned in the Measurement, Materials Safety class. They will learn additional foundational skills for the metalworking industry including the basics of benchwork, layout, hole making operations, grinding, shop trigonometry and introductory geometric dimensioning and tolerancing. Additional hours required.
Prerequisites: Reading Proficiency or departmental approval
Corequisites: ME 100

**ME 120. Manual Machining I. 3 Credit Hours.**
This course prepares students for the National Institute for Metalworking Skills (NIMS) level 1 milling, grinding, and drill press skills examinations. Students will build upon skills learned in the Measurement, Materials Safety class and the Job Planning, Benchwork Layout course. They will learn additional skills for the metalworking industry, including the safe setup and operation of milling machines, drill presses, and grinders. Some of the projects required for NIMS credentialing will be incorporated as lab projects. Additional hours required.
Prerequisites: ME 111 with a minimum grade of "C" or departmental approval, and Reading Proficiency

**ME 140. Introduction to Robotics. 3 Credit Hours.**
This course is a historical overview of the use and development of robotics. Topics to be studied include specific types and application of industrial robots, the effects of industrial robots and technology on employers and employees, and the programming and functioning of robotic simulators. Additional lab hours required.
Prerequisites: Reading Proficiency

**ME 154. Mechanical Blueprint Reading. 2 Credit Hours.**
Mechanical Blueprint Reading covers mechanical drawings and introduces Geometric Dimensioning and Tolerancing (GDT). Topics include extracting specifications from the drawing, understanding basic symbols, and interpreting the drawings for producing parts.
Prerequisites: Reading Proficiency or concurrent enrollment in RDG 079

**ME 200. Manual Machining II. 3 Credit Hours.**
This course prepares students for the National Institute for Metalworking Skills (NIMS) Level I Turning Between Centers and Chucking credentialing assessment. Students will build upon skills learned in the Measurement, Materials Safety and the Job Planning, Benchwork Layout courses. They will learn additional skills for the metalworking industry, including fundamental operations performed on a lathe. Some of the projects required for NIMS credentialing will be incorporated as lab projects. Additional hours required.
Prerequisites: Reading Proficiency or departmental approval
Corequisites: ME 120

**ME 210. Robotics Subsystems and Components. 3 Credit Hours.**
A continuation of Introduction to Robotics (ME 140) covering more advanced programming on ROBOT simulators (i.e., application of motion, voice, light, and sound sensors). Typical robot subsystems and components, such as electronic (feedback devices, controls, microprocessor interfacing), hydraulic, pneumatic, and mechanical drive mechanisms, are covered with regard to their functions and operational principles. Additional lab hours required.
Prerequisites: ME 140 or EE 242 with a minimum grade of "C" or department approval and Reading Proficiency

**ME 212. Introduction to Computer Numerical Control (CNC) Machining. 3 Credit Hours.**
This course prepares students for the National Institute for Metalworking Skills (NIMS) level 1 Computer Numerical Control (CNC) Milling examinations. Students will build upon skills learned in the Measurement, Materials Safety class and the Job Planning, Benchwork Layout course. They will learn additional skills for the metalworking industry, including the safe setup, operation, and basic programming of Computer Numerical Controlled milling machines. They will work on the project required for NIMS credentialing. Additional hours required.
Prerequisites: Reading Proficiency or departmental approval
Corequisites: ME 120

**ME 230. Introduction to 3-D Solid Modeling for Design. 4 Credit Hours.**
Introduction to 3-D Solid Modeling for Design teaches the use of 3D solid modeling CAD packages. Instruction includes how to use a 3D CAD package to develop solid models in order to generate assemblies and 2D drawings. This course focuses on Solidworks or Inventor.
Prerequisites: EGR 100 with a minimum grade of "C" or Department approval and Reading Proficiency

**ME 231. Introduction to Rapid Prototyping. 3 Credit Hours.**
Introduction to Rapid Prototyping examines the various Rapid Prototyping Processes such as Stereolithography (SLA), Fused Deposition Modeling (FDM), and others as they become available. Laboratory activities will involve hands-on practice orienting, slicing, and editing solid model files in order to generate three-dimensional SLA and FDM physical models.
Prerequisites: ME 230 with a minimum grade of "C" or department approval and Reading Proficiency

**ME 237. Programmable Logic Controllers II. 3 Credit Hours.**
This course is a continuation of the study of Programmable Logic Controllers. Students will cover topics including comparators, variables, subroutines, and human-machine interfaces. Additional lab hours required.
Prerequisites: EE 236 or ME 211 both with minimum grades of "B" or department approval, and Reading Proficiency

**ME 249. Materials and Metallurgy. 3 Credit Hours.**
Materials and Metallurgy is a survey of the sources, preparation, properties and uses of engineering materials. Topics include the iron-carbon system, ferrous metallurgy, nonferrous metallurgy, ceramics, plastics, elastomers, composites, and finishes. Practical laboratory activities are performed to clarify and enhance text material.
Prerequisites: Reading Proficiency

# Missouri Civics Examination (MCE)

## Course Descriptions

**MCE 100. Missouri Civics Examination. 0 Credit Hours.**
The Missouri Civics Examination is a non-credit course that will provide students with the state mandated Civics Exam, as well as links to study guides and practice tests. Students are able to repeat the exam until they pass with a 70% or higher in order to fulfill the state mandated graduation requirement.
Recommended Preparation: HST 101, HST 102, PSC 101, PSC 103, PSC 205

# Music (MUS)

## Course Descriptions

**MUS 101. Music Theory I. 4 Credit Hours.**
Music Theory I introduces students to the skills of reading, writing, and listening to music. The emphasis of this course is on developing a solid understanding of tonal operations of the Classical and early Romantic periods.
Prerequisites: Reading Proficiency
Recommended Preparation: Experience in reading music notation

**MUS 102. Music Theory II. 4 Credit Hours.**
Music Theory II is a continuation of Music Theory I. This course improves on the foundational understanding of music learned previously. Tonal diatonic operations are explored in more depth and are developed into tonal chromatic operations.
Prerequisites: MUS 101 with a minimum grade of "C" and Reading Proficiency

**MUS 103. Music Fundamentals (MOTR MUSC 101). 3 Credit Hours.**
Music Fundamentals is a survey of the basic elements of music, including musical notation, rhythmic notation, scales, and chords. This course provides a foundation for the creation and evaluation of music.
Prerequisites: Reading Proficiency or concurrent enrollment in RDG 079

**MUS 113. History of Jazz (MOTR MUSC 100J). 3 Credit Hours.**
History of Jazz is a review of artists, composers, and other influences associated with the art of Jazz music. It will examine the impact of Jazz on culture in the United States and the world.
Prerequisites: Reading Proficiency

**MUS 114. Music Appreciation (MOTR MUSC 100). 3 Credit Hours.**
Music Appreciation is a survey of various aspects of music including the philosophy, science, theory, anthropology, sociology, history, and physical act of producing music. A wide variety of musical styles and associated composers will be used to explore these aspects of music.
Prerequisites: Reading Proficiency or concurrent enrollment in RDG 079

**MUS 115. Group Voice. 2 Credit Hours.**
Group Voice is an introduction to the fundamentals of singing. Students learn fundamental vocal skills including tone production, breath control, diction, phrasing, rhythmic and melodic precision, posture, and stage presence.
Prerequisites: Reading Proficiency

**MUS 121. Class Piano I. 2 Credit Hours.**
Class Piano I is designed to develop basic skills and technique in piano playing. This class encompasses a variety of skills associated with piano playing including the reading of music notation, learning piano technique, and performing piano repertoire.

**MUS 122. Class Piano II. 2 Credit Hours.**
Class Piano II is the continuation of the study of piano. The course is designed to develop skills and technique in piano playing including the reading of more advanced musical notation, learning more advanced piano technique, and performing more advanced piano repertoire.
Prerequisites: MUS 121 with a minimum grade of "C" or demonstrated proficiency and Reading Proficiency

**MUS 128. History of Rock and Roll (MOTR MUSC 100RP). 3 Credit Hours.**
History of Rock and Roll is a review of artists, composers, and other influences associated with Rock and Roll music. It will examine the impact of Rock and Roll music on culture in the United States and the world.
Prerequisites: Reading Proficiency or concurrent enrollment in RDG 079

**MUS 130. Beginning Guitar. 2 Credit Hours.**
Beginning Guitar teaches acoustic guitar with emphasis on technique and basic music theory. Students will be exposed to professional acoustic guitarists and songwriting.
Prerequisites: Reading Proficiency

**MUS 131. Choir I (MOTR PERF 102C). 1 Credit Hour.**
Choir I is the study and performance of appropriate ensemble literature. This course will develop individual and ensemble musical skills including technique, sight reading, intonation, balance, and blend.
Prerequisites: Reading Proficiency

**MUS 132. Orchestra I (MOTR PERF 102O). 1 Credit Hour.**
Orchestra I is the study and performance of appropriate ensemble literature. This course will develop individual and ensemble musical skills including technique, sight reading, intonation, balance, and blend.
Prerequisites: Reading Proficiency

**MUS 134. Band I (MOTR PERF 102B). 1 Credit Hour.**
Band I is the study and performance of appropriate ensemble literature. This course will develop individual and ensemble musical skills including technique, sight reading, intonation, balance, and blend.
Prerequisites: Reading Proficiency

**MUS 135. Choir II (MOTR PERF 102C). 1 Credit Hour.**
Choir II will build on the concepts learned in Choir I and further develop individual and ensemble musical skills including technique, sight reading, intonation, balance, and blend.
Prerequisites: MUS 131 with a minimum grade of "C" and Reading Proficiency

**MUS 138. Jazz Ensemble I (MOTR PERF 102B). 1 Credit Hour.**
Jazz Ensemble I is the study and performance of jazz ensemble literature. The course develops individual and ensemble musical skills including technique, sight reading, improvisation, intonation, balance, and blend.
Prerequisites: Reading Proficiency

**MUS 139. Jazz Ensemble II (MOTR PERF 102B). 1 Credit Hour.**
Jazz Ensemble II will build on the concepts learned in Jazz Ensemble I and further develop individual and ensemble musical skills including technique, sight reading, improvisation, intonation, balance, and blend.
Prerequisites: MUS 138 with a minimum grade of "C" or equivalent and Reading Proficiency

**MUS 141. Applied Music I. 1 Credit Hour.**
Applied Music I is a course in which students will study their primary instrument. The class will delve into such topics as technical mastery, musical/artistic mastery, and creative expression.
Prerequisites: Reading Proficiency

**MUS 142. Applied Music II. 1 Credit Hour.**
Applied Music II is a course in which students will continue study their primary instrument and is a continuation of Applied Music I. The class will delve deeper into such topics as technical mastery, and musical/artistic mastery, and creative expression.
Prerequisites: MUS 141 with a minimum grade of "C" and Reading Proficiency

**MUS 146. Orchestra II (MOTR PERF 102O). 1 Credit Hour.**
Orchestra II will build on the concepts learned in Orchestra I and further develop individual and ensemble musical skills including technique, sight reading, intonation, balance, and blend.
Prerequisites: MUS 132 with a minimum grade of "C" and Reading Proficiency

**MUS 147. Band II (MOTR PERF 102B). 1 Credit Hour.**
Band II will build on the concepts learned in Band I and further develop individual and ensemble musical skills including technique, sight reading, intonation, balance, and blend.
Prerequisites: MUS 134 with a minimum grade of "C" and Reading Proficiency

**MUS 150. Fundamentals of Music Technology. 2 Credit Hours.**
Fundamentals of Music Technology is the study and practice of the fundamentals of digital music and sound production. The course covers Digital Audio Workstations (DAW), file management, basic MIDI sequencing, and basic audio recording.
Prerequisites: Reading Proficiency

**MUS 152. Audio Engineering. 3 Credit Hours.**
Audio Engineering is the study of recording sessions from setup to teardown. This course covers the theory of compressors, equalization, audio effects, and microphone design, selection, and placement. The class includes studio visits to study live recording sessions.
Prerequisites: MUS 150 with a minimum grade of "C" and Reading Proficiency

**MUS 154. Music Recording. 2 Credit Hours.**
Music Recording is the study of various Digital Audio Workstations (DAW) to record and edit music. The course covers plugin effects, mix automation, mastering, and studio hardware.
Prerequisites: MUS 150 with a minimum grade of "C" and Reading Proficiency

**MUS 201. Music Theory III. 4 Credit Hours.**
Music Theory III is based on theoretical analysis and is a continuation of previous music theory classes. Analysis of pieces from the Classical period allows students to apply the diatonic and chromatic knowledge they have gained in prerequisite courses.
Prerequisites: MUS 102 with a minimum grade of "C" and Reading Proficiency

**MUS 202. Music Theory IV. 4 Credit Hours.**
Music Theory IV is the culmination of the four-semester music theory cycle. In this course students apply the fundamental and analytical techniques they learned in previous theory courses. Special attention is paid to 20th Century compositional techniques and to the notation and practice of popular music styles.
Prerequisites: MUS 201 with a minimum grade of "C" and Reading Proficiency

**MUS 216. Jazz Ensemble III (MOTR PERF 102B). 1 Credit Hour.**
Jazz Ensemble III builds on the concepts learned in Jazz Ensemble II. The course further develops individual and ensemble musical skills including technique, sight reading, improvisation, intonation, balance, and blend and provides the experience of ensemble leadership.
Prerequisites: MUS 139 with a minimum grade of "C" or equivalent and Reading Proficiency

**MUS 221. Class Piano III. 2 Credit Hours.**
Class Piano III is the continuation of the study of piano. The course is designed to continue to develop skills and technique in piano playing including the reading of advanced musical notation, learning advanced piano technique, and performing advanced piano repertoire.
Prerequisites: MUS 122 with a minimum grade of "C" or demonstrated proficiency and Reading Proficiency

**MUS 222. Class Piano IV. 2 Credit Hours.**
Class Piano IV is the culmination of the piano curriculum. The course further refines skills and technique in piano playing including the reading of advanced musical notation, learning advanced piano technique, and performing advanced piano repertoire.
Prerequisites: MUS 221 with a minimum grade of "C" or demonstrated proficiency and Reading Proficiency

**MUS 231. Choir III (MOTR PERF 102C). 1 Credit Hour.**
Choir III will build on the concepts learned in Choir I and II, continue to develop individual and ensemble musical skills including technique, sight reading, intonation, balance, and blend and provide the experience of ensemble leadership.
Prerequisites: MUS 131 and MUS 135 with minimum grades of "C", and Reading Proficiency

**MUS 232. Orchestra III (MOTR PERF 102O). 1 Credit Hour.**
Orchestra III will build on the concepts learned in Orchestra I and II, continue to develop individual and ensemble musical skills including technique, sight reading, intonation, balance, and blend and provide the experience of ensemble leadership.
Prerequisites: MUS 132 and MUS 146 with minimum grades of "C", and Reading Proficiency

**MUS 234. Band III (MOTR PERF 102B). 1 Credit Hour.**
Band III will build on the concepts learned in Band I and II, continue to develop individual and ensemble musical skills including technique, sight reading, intonation, balance, and blend and provide the experience of ensemble leadership.
Prerequisites: MUS 134 and MUS 147 with minimum grades of "C", and Reading Proficiency

**MUS 235. Choir IV (MOTR PERF 102C). 1 Credit Hour.**
Choir IV will build on the concepts learned in Choir I, II and III, continue to develop individual and ensemble musical skills including technique, sight reading, intonation, balance, and blend and provide an advanced experience in ensemble leadership.
Prerequisites: MUS 131, MUS 135, and MUS 231 with minimum grades of "C", and Reading Proficiency

**MUS 236. Orchestra IV (MOTR PERF 102O). 1 Credit Hour.**
Orchestra IV will build on the concepts learned in Orchestra I, II and III, continue to develop individual and ensemble musical skills including technique, sight reading, intonation, balance, and blend and provide an advanced experience in ensemble leadership.
Prerequisites: MUS 132, MUS 146, and MUS 232 with minimum grades of "C", and Reading Proficiency

**MUS 237. Band IV (MOTR PERF 102B). 1 Credit Hour.**
Band IV will build on the concepts learned in Band I, II and III, continue to develop individual and ensemble musical skills including technique, sight reading, intonation, balance, and blend and provide an advanced experience in ensemble leadership.
Prerequisites: MUS 134, MUS 147, and MUS 234 with minimum grades of "C", and Reading Proficiency

**MUS 241. Applied Music III. 2 Credit Hours.**
Applied Music III is a course in which students will continue to study their primary instrument and is a continuation of Applied Music II. The class will continue to explore such topics as technical mastery, musical/artistic mastery, and creative expression.
Prerequisites: MUS 142 with a minimum grade of "C" and Reading Proficiency

**MUS 242. Applied Music IV. 2 Credit Hours.**
Applied Music IV is a course in which students continue study of their primary instrument and is a continuation of Applied Music III. The goal of this course is to prepare students for junior-level applied music study at a university, and will continue to explore such topics as technical mastery, musical/artistic mastery, and creative expression.
Prerequisites: MUS 241 with a minimum grade of "C" and Reading Proficiency

# Nursing (NUR)

## Course Descriptions

**NUR 151. Fundamentals of Nursing. 7 Credit Hours.**
Fundamentals of Nursing is an introduction to the role of the nurse in meeting the needs common to all patients through knowledge, skill, and attitudes essential for the practice of nursing. The course will cover theory, as well as, physical, biological, and behavioral sciences. (Credit is only allowed for either NUR 151 or NUR 101.)
Prerequisites: Enrollment in the Nursing Program and Reading Proficiency
Corequisites: NUR 152

**NUR 152. Nursing Laboratory Practicum I. 1 Credit Hour.**
Nursing Laboratory Practicum I allows students to practice nursing skills in the College Nursing Laboratory and reinforces principles introduced in Fundamentals of Nursing. (Credit is only allowed for either NUR 152 or NUR 102.)
Prerequisites: Enrollment in the Nursing Program and Reading Proficiency
Corequisites: NUR 151

**NUR 153. Nursing of Adults and Children I. 9 Credit Hours.**
Nursing of Adults and Children I is designed to assist the student to acquire knowledge and skills in meeting the needs of adults and children with an emphasis on adaptation to illness and hospitalization in medical-surgical nursing, and mothers and newborns during the maternity cycle. (Credit is only allowed for either NUR 153 or NUR 108.)
Prerequisites: BIO 208, NUR 151, PSY 205 all with grades of "C" or better and Reading Proficiency
Corequisites: NUR 154

**NUR 154. Nursing Laboratory Practicum II. 1 Credit Hour.**
Nursing Laboratory Practicum II allows students to practice nursing skills in the College Nursing Laboratory and reinforces principles introduced in Nursing of Adults and Children I. (Credit is only allowed for either NUR 154 or NUR 105.)
Prerequisites: NUR 151 with a minimum grade of "C", NUR 152 with a grade of "S", and Reading Proficiency
Corequisites: NUR 153

**NUR 161. LPN Experiential Credit I. 11 Credit Hours.**
This course is designed to transcript LPN experiential credit for first semester nursing. LPN's must have successfully completed NUR 160. (Credit is only allowed for either NUR 161 or NUR 119.)
Prerequisites: Enrolled in LPN Bridge Course and NUR 160 with a grade of "C" or better and Reading Proficiency

**NUR 170. LPN/Paramedic to RN Bridge Course. 7 Credit Hours.**
LPN/Paramedic to RN Bridge Course is required to prepare the licensed practical nurse (LPN) or paramedic to enter the associate degree in nursing program. Emphasis is on assessing, reinforcing, and expanding competencies. Classroom content focuses on role change, communication, critical thinking, the nursing process, pharmacology, and nutrition. This course is designed to expedite LPNs and Paramedics to their next step in obtaining Registered Nurse Licensure. Upon completion of the bridge course, the students join the 2-year ADN program. (Credit is only allowed for either NUR 170 or NUR 160.)
Prerequisites: Enrollment in the Nursing Program and Reading Proficiency

**NUR 180. Pharmacology for Nursing Practice. 3 Credit Hours.**
Pharmacology for Nursing Practice establishes a knowledge base that applies to medication administration, patient care, and patient education. This course will review the clinical applications of medications within drug classifications including the indications, mechanism of action, normal dosing, adverse effects, contraindications, and interactions. Specific nursing responsibilities related to medication administration will be emphasized. (Credit is only allowed for either NUR 180 or NUR 517.)
Prerequisites: NUR 151 with a minimum grade of "C", NUR 152 with a grade of "S", and Reading Proficiency; or LPN 101 and 103 with minimum grades of "C", LPN 102 with a grade of "S", and Reading Proficiency

**NUR 251. Nursing of Adults and Children II. 10 Credit Hours.**
Nursing of Adults and Children II develops the knowledge and skills necessary to meet the needs of adults and children with selected problems related to medical-surgical and behavioral health. (Credit is only allowed for either NUR 251 or NUR 201.)
Prerequisites: NUR 153 or NUR 160 with grades of "C" or better, and BIO 203 with a grade of "C" or better and Reading Proficiency

**NUR 252. Nursing of Adults and Children III. 8 Credit Hours.**
Nursing of Adults and Children III enhances the knowledge and skills necessary to meet the needs of adults and children with selected medical-surgical problems. (Credit is only allowed for either NUR 252 or NUR 205.)
Prerequisites: NUR 251 with a grade of "C" or better and Reading Proficiency
Corequisites: NUR 253

**NUR 253. Management Skills in Nursing. 3 Credit Hours.**
Management Skills in Nursing include theory and practicum in principles of managing the care of a group of patients. The student will participate actively in the role of a beginning staff nurse under the guidance of the instructor and agency staff. (Credit is only allowed for either NUR 253 or NUR 204.)
Prerequisites: NUR 251 with a grade of "C" or better and Reading Proficiency
Corequisites: NUR 252

# Occupational Therapy Assistant (OTA)

## Course Descriptions

**OTA 101. Fundamentals of Occupational Therapy. 3 Credit Hours.**
Fundamentals of Occupational Therapy is an introduction to occupational therapy, its history and philosophy, theory, and current practice patterns. It includes skills in evidence-based practice, leadership, and inter-professional and intra-professional teamwork. Fieldwork experience in an emerging practice area is included.
Prerequisites: Admission to the OTA program and Reading Proficiency

**OTA 102. Occupational Therapy in Psychosocial Settings and the Community. 4 Credit Hours.**
Occupational Therapy in Psychosocial Settings and the Community introduces occupational therapy treatment related to psychosocial dysfunction across the lifespan. Students learn basic psychiatric terms, diagnoses, and behaviors as well as how occupational performance is affected. Community-based Occupational Therapy practice is also explored through a community-based fieldwork experience.
Prerequisites: OTA 101, OTA 103, OTA 110, and PSY 205 with minimum grades of "C" and Reading Proficiency

**OTA 103. The Occupational Therapy Process. 2 Credit Hours.**
The Occupational Therapy Process introduces the scope of Occupational Therapy (OT) practice and emphasizes the OT Process of evaluation, intervention, and outcomes. Students develop skills in therapeutic use of self, data collection, activity analysis, and intervention planning and implementation.
Prerequisites: Admission to the OTA program and Reading Proficiency

**OTA 104. Occupational Therapy in Rehabilitation I. 2 Credit Hours.**
Occupational Therapy in Rehabilitation I expands the basic skills learned in the first semester of the Occupational Therapy Assistant Program. Topics focus on problem areas commonly seen in physical dysfunction affecting occupational performance in adults and older adults. Skills learned in this course include, but are not limited to, acquiring patient vitals, seating and positioning, functional mobility, orthotic fabrication, environmental assessment and intervention, driving, worker rehabilitation, and virtual service delivery.
Prerequisites: OTA 101, OTA 103, OTA 110, and PSY 205 with minimum grades of "C" and Reading Proficiency

**OTA 110. Kinesiology Fundamentals for Occupational Therapy Practice. 3 Credit Hours.**
Kinesiology Fundamentals for Occupational Therapy Practice is the study of human movement. It involves applying principles of biomechanics as well as anatomy and physiology of the musculo-skeletal system to functional movement. Emphasis is placed on applying these principles to occupation and the analysis of postures and motions typical of occupational therapy practice.
Prerequisites: Admission to the OTA program and Reading Proficiency

**OTA 120. Occupation and Society. 3 Credit Hours.**
Occupation and Society explores human occupation through developmental, sociocultural, and policy lenses. The health benefits of engaging in occupation throughout the lifespan for well-being are emphasized.
Prerequisites: OTA 101, OTA 103, and OTA 110 with minimum grades of "C" and Reading Proficiency

**OTA 203. Intervention Strategies for Orthopedic Conditions. 3 Credit Hours.**
Intervention Strategies for Orthopedic Conditions builds on skills learned in Occupational Therapy in Rehabilitation I, including principles of assessment, interpretation, and intervention implementation for deficits and performance limitations associated with orthopedic conditions.
Prerequisites: OTA 102, OTA 104, OTA 207, BIO 208, and OTA 120 with minimum grades of "C", and Reading Proficiency

**OTA 204. Occupational Therapy for Children and Youth. 4 Credit Hours.**
Occupational Therapy for Children and Youth focuses on evaluation and intervention techniques and outcomes for the pediatric population. Skills learned include knowledge of developmental and perceptual motor skills, observation, screening, assessment, self-care, feeding, and use of adaptive equipment along with play/leisure treatment strategies.
Prerequisites: OTA 102, OTA 104, OTA 207, OTA 120, and BIO 208 with minimum grades of "C" and Reading Proficiency

**OTA 207. Health Promotion and Disease Process. 4 Credit Hours.**
Health Promotion and Disease Process provides an overview of disease conditions typically encountered in occupational therapy practice. Health promotion through use of occupation is emphasized. Etiology, symptoms, and the physical as well as psychological reactions to these conditions are explored, along with basic influences contributing to healthy living. There is an emphasis on recognizing and using appropriate medical terminology and the role and function of the occupational therapy assistant within the treatment process.
Prerequisites: OTA 101, OTA 103, OTA 110, and PSY 205 with minimum grades of "C" and Reading Proficiency

**OTA 208. Intervention Strategies for Neurological Conditions. 3 Credit Hours.**
Intervention Strategies for Neurological Conditions builds on skills learned in Occupational Therapy in Rehabilitation I, including principles of assessment, interpretation, and intervention implementation for deficits and performance limitations associated with neurological conditions. This course includes a fieldwork component in a rehabilitation or pediatric site.
Prerequisites: BIO 208, OTA 102, OTA 104, OTA 207, and OTA 120 with minimum grades of "C" and Reading Proficiency

**OTA 213. Occupational Therapy Assistant Practicum I. 4 Credit Hours.**
This full-time 8 week fieldwork practicum is designed to bridge the student from classroom to clinic in preparation for entry level practice as an occupational therapy assistant. Under the supervision of an experienced occupational therapy practitioner, the student participates in an in-depth experience providing occupational therapy services to clients, focusing on the application of purposeful and meaningful occupation. It is designed to promote problem-solving and clinical reasoning appropriate to the occupational therapy assistant role and to develop professionalism and competence in career responsibilities.
Prerequisites: OTA 203, OTA 204, OTA 208, OTA 215, all with a minimum grade of "C", and the completion of all general education requirements for the occupational therapy assistant program and Reading Proficiency
Corequisites: OTA 216

**OTA 214. Occupational Therapy Assistant Practicum II. 4 Credit Hours.**
This is the second of two full-time 8 week fieldwork practicum designed to bridge the student from classroom to clinic in preparation for entry level practice as an occupational therapy assistant. Under the supervision of an experienced occupational therapy practitioner, the student participates in an in-depth experience providing occupational therapy services to clients, focusing on the application of purposeful and meaningful occupation. It is designed to promote problem-solving and clinical reasoning appropriate to the occupational therapy assistant role and to develop professionalism and competence in career responsibilities.
Prerequisites: OTA 203, OTA 204, OTA 208, OTA 215 with minimum grades of "C", and the completion of all general education requirements for the occupational therapy assistant curriculum and Reading Proficiency
Corequisites: OTA 216

**OTA 215. The Management of Occupational Therapy. 2 Credit Hours.**
The Management of Occupational Therapy explores the roles of the occupational therapy assistant in health care delivery. A variety of topics, including current trends, documentation, reimbursement, credentialing, ethical standards, inter- and intra-professional teamwork, and quality improvement, are explored to provide students a foundation in the management of occupational therapy service.
Prerequisites: OTA 102, OTA 104, OTA 207, OTA 120, and BIO 208 with minimum grades of "C" and Reading Proficiency

**OTA 216. Seminar in Occupational Therapy Practice. 1 Credit Hour.**
Seminar in Occupational Therapy Practice is the program culminating course designed to facilitate the transition from student to Occupational Therapy Assistant practitioner. Basic knowledge and skills necessary to enter the workplace are reviewed. There is an emphasis on legal, ethical, and professional issues. Certification and licensure preparation as well as job seeking skills are investigated.
Prerequisites: OTA 203, OTA 204, OTA 208, and OTA 215 with minimum grades of "C", and Reading Proficiency
Corequisites: OTA 220 and OTA 221

**OTA 220. Fieldwork Level 2A. 6 Credit Hours.**
Fieldwork Level 2A is a full-time 8 week fieldwork practicum, designed to bridge the student from classroom to clinic in preparation for entry-level practice as an occupational therapy assistant. Under the supervision of an experienced occupational therapy practitioner, the student participates in an in-depth experience providing occupational therapy services to clients, focusing on the application of purposeful and meaningful occupation. It is designed to promote problem solving and clinical reasoning appropriate to the occupational therapy assistant role and to develop professionalism and competence in career responsibilities.
Prerequisites: OTA 203, OTA 204, OTA 208, and OTA 215 with minimum grades of "C" and Reading Proficiency
Corequisites: OTA 216

**OTA 221. Fieldwork Level 2B. 6 Credit Hours.**
Fieldwork Level 2B is the second of two full-time 8-week fieldwork practicums designed to bridge the student from classroom to clinic in preparation for entry-level practice as an occupational therapy assistant. Under the supervision of an experienced occupational therapy practitioner, the student participates in an in-depth experience providing occupational therapy services to clients, focusing on the application of purposeful and meaningful occupation. It is designed to promote problem solving and clinical reasoning appropriate to the occupational therapy assistant role and to develop professionalism and competence in career responsibilities.
Prerequisites: OTA 220 with a grade of "S" and Reading Proficiency
Corequisites: OTA 216

# Paramedic Technology (PAR)

## Course Descriptions

**PAR 221. Paramedic Clinical I. 3 Credit Hours.**
Paramedic Clinical I provides the student the opportunity to demonstrate the ability to perform airway, pharmacology and medical skills by completing a minimum of 236 clinical hours in various hospital departments and on an ambulance.
Prerequisites: Admission to the Paramedic program and Reading Proficiency
Corequisites: PAR 235

**PAR 222. Paramedic Clinical II. 3 Credit Hours.**
Paramedic Clinical II builds upon the clinical hours in various hospital departments and on an ambulance from Paramedic Clinical I.
Prerequisites: PAR 221 with a minimum grade of "C" and Reading Proficiency

**PAR 233. EMS Foundations. 1 Credit Hour.**
EMS Foundations provides the student with an introduction to what it means to be a Paramedic. The course includes the following topics: EMS Systems, Research, Safety and Wellness, Documentation, EMS System Communication, Therapeutic Communication, Medical/Legal and Ethics.
Prerequisites: Admission to Paramedic Program and Reading Proficiency

**PAR 235. Paramedic Skills I. 2 Credit Hours.**
Paramedic Skills I introduces the basic required skills to function as a paramedic. The student will learn and be competent in administering medication through intravenous, intraosseous, intramuscular, and subcutaneous routes. Student will preform proper patient assessment, and airway management skills. (Credit is only allowed for either PAR 235 or PAR 211.)
Prerequisites: Admission to the Paramedic program and Reading Proficiency

**PAR 236. EMS Pathophysiology. 2 Credit Hours.**
EMS Pathophysiology is a course where the student will learn the principles of pathophysiology as it relates to the emergency patient, how to recognize pathophysiologic findings and how to anticipate changes in a patient's condition based upon the findings.
Prerequisites: Admission to the Paramedic program and Reading Proficiency

**PAR 237. Pulmonology. 3 Credit Hours.**
Pulmonology is a course in which the student will review the respiratory anatomy, physiology, and pharmacology, and how they are applied in the assessment and treatment of respiratory emergencies.
Prerequisites: Admission to the Paramedic program and Reading Proficiency

**PAR 238. Cardiology. 5 Credit Hours.**
Cardiology teaches the student to recognize and treat cardiovascular emergencies and apply associated pharmacological interventions. Students will also be required to perform and interpret Electrocardiogram's (ECG)s.
Prerequisites: PAR 235, PAR 236, PAR 237, and PAR 242 with minimum grades of "C", or by permission of the program director, and Reading Proficiency

**PAR 239. Trauma. 3 Credit Hours.**
Trauma is the review of the anatomy, physiology and pathophysiology of trauma, and assessment and treatment of various traumatic injuries.
Prerequisites: PAR 235, PAR 236, and PAR 242 with minimum grades of "C" and Reading Proficiency

**PAR 240. EMS Operations. 2 Credit Hours.**
EMS Operations addresses various aspects of emergency medical services (EMS) including incident management, mass casualty incident, hazardous materials, rescue operations, air evacuation, and terroristic threats.
Prerequisites: PAR 235, PAR 236, PAR 237, and PAR 242 with minimum grades of "C" or by permission of the program director and Reading Proficiency

**PAR 241. EMS Seminar. 3 Credit Hours.**
EMS Seminar is a capstone course designed to help students synthesize various patient assessment techniques and treatment plan implementations. The student will review all the skills and knowledge necessary to prepare for the NREMT practical and written examinations.
Prerequisites: PAR 233, PAR 238, PAR 239, PAR 240, PAR 222, PAR 245, and PAR 244 with minimum grades of "C", and Reading Proficiency

**PAR 242. Medical Care. 5 Credit Hours.**
Medical Care is a course in which the student will review pharmacology, anatomy, and physiology of the human body. Students will also study various body systems (ex. neurology, gastrointestinal disorders, hematology, psychiatric, non-traumatic musculoskeletal disorders). In addition, students will review diseases of the eye, ear, nose, and throat.
Prerequisites: Admission to Paramedic program and Reading Proficiency

**PAR 243. Field Internship. 4 Credit Hours.**
Field Internship students will be assigned to an Advanced Life Support ambulance where they will act as the team leader in performing total patient care including assessment and treatment of the patient.
Prerequisites: Admission to Paramedic program, PAR 233, PAR 235, PAR 236, PAR 237, PAR 238, PAR 239, PAR 240, PAR 242, PAR 244, PAR 221, PAR 222, and PAR 245 with minimum grades of "C", and Reading Proficiency

**PAR 244. Special Patients. 2 Credit Hours.**
Special Patients is a course where the student will receive instruction in the care of the obstetric patient, neonatal and pediatric care, geriatrics and patients with special challenges.
Prerequisites: Admission to Paramedic program and Reading Proficiency
Corequisites: PAR 245

**PAR 245. Paramedic Skills II. 2 Credit Hours.**
Paramedic Skills II continues to build additional mastery of skills from Paramedic Skills I. These advanced skills include assessments of the pediatric patient, critical care patient assessment, and methods of infant delivery. Additional hands-on skills include thoracentesis, cricothyrotomy, and ventilator use.
Prerequisites: PAR 235, PAR 236, PAR 237, and PAR 242 with minimum grades of "C", or by permission of the program director, and Reading Proficiency
Corequisites: PAR 244

# Personal Development (PRD)

## Course Descriptions

**PRD 102. Career Exploration. 1 Credit Hour.**
Career Exploration emphasizes students learning about themselves as well as about the world of work. Students will learn to identify accurate career information and resources. They will also learn a decision-making model to assist them in their career selection process.

**PRD 114. Coping with Stress. 1 Credit Hour.**
This course explores the physical and psychological nature of stress. Topics may include the practical application of various coping strategies, anxiety resolution, systematic desensitization, and transferable skills necessary for student success.

**PRD 128. Mental Health First Aid. 1 Credit Hour.**
Mental Health First Aid is a certification course designed to assist participants in giving first aid to individuals experiencing a mental health crisis and/or who are in the early stages of a mental health disorder. The course teaches an appropriate response plan and the signs and symptoms of common health problems anxiety, depression, psychosis, eating disorders, and substance use disorders.
Prerequisites: Reading Proficiency

# Philosophy (PHL)

## Course Descriptions

**PHL 101. Introduction to Philosophy (MOTR PHIL 100). 3 Credit Hours.**
Introduction to Philosophy is an examination of philosophical topics such as the origins and limits of knowledge, the mind-body relation, standards of morality, freedom of will, and the nature and existence of God. The course incorporates both classical and contemporary readings.
Prerequisites: Reading Proficiency or concurrent enrollment in RDG 079

**PHL 102. Introduction to Logic (MOTR PHIL 101). 3 Credit Hours.**
Introduction to Logic includes the methods for constructing and evaluating deductive and inductive arguments. The course may include techniques of both traditional (syllogistic) and symbolic logic. Aspects of informal logic will also be covered.
Prerequisites: Reading Proficiency

**PHL 103. World Religions (MOTR RELG 100). 3 Credit Hours.**
World Religions is an introductory course that examines the nature, function, history, and content of religions in the human experience and culture. The current status of world religions such as Buddhism, Christianity, Confucianism, Hinduism, Islam, and Judaism are also examined.
Prerequisites: Reading Proficiency or concurrent enrollment in RDG 079

**PHL 104. Ethics (MOTR PHIL 102). 3 Credit Hours.**
Ethics is an introductory survey of the basic issues and approaches in the field of ethics, with the aim of showing the relevance of philosophical inquiry to contemporary moral concerns. Questions concerning the good life, the nature and content of morality, and the relation of the individual to the standards of society will be considered.
Prerequisites: Reading Proficiency or concurrent enrollment in RDG 079

**PHL 109. Bio-Medical Ethics. 3 Credit Hours.**
This course is an analysis of a range of moral issues related to the fields of medicine and biotechnical engineering from the standpoint of philosophical ethical theories.
Prerequisites: Reading Proficiency

**PHL 111. Environmental Ethics. 3 Credit Hours.**
This introductory course examines human beings' ethical relationship with the natural environment. Topics include environmental ethical frameworks (e.g., biocentrism), animal rights, obligations to future generations, population and consumption, climate change and environmental justice. Some issues are viewed through various cultural and religious lenses. The course incorporates primarily contemporary readings.
Prerequisites: Reading Proficiency

**PHL 112. Business Ethics (MOTR PHIL 102P). 3 Credit Hours.**
Business Ethics is an examination of the ethical dimensions of the world of business from a philosophical perspective. Using theories drawn from philosophy, students will evaluate business issues and case studies with respect to such topics as personal, professional, and corporate responsibility and the obligations of justice.
Prerequisites: Reading Proficiency

# Physical Science (PSI)

## Course Descriptions

**PSI 101. Physical Science (MOTR PHYS 110). 3 Credit Hours.**
Physical Science is a survey of the fundamental principles of physics and chemistry with applications to geology, astronomy, and meteorology. Topics include motion, energy, heat, temperature, waves, and electricity. The course is designed for students in non-science and career curricula.
Prerequisites: MTH 108 or MTH 140S with a minimum grade of "C", or placement into MTH 140 or higher, and Reading Proficiency

**PSI 111. Introduction to Astronomy I (MOTR ASTR 100). 3 Credit Hours.**
Introduction to Astronomy I presents the fundamental concepts and principles of the Universe. The topics covered include the Earth, solar system, stars, galaxies, and evolution of the Universe. The course is designed for students in non-science and career curricula.
Prerequisites: MTH 140S with a minimum grade of "C", or placement into MTH 140 or higher, and Reading Proficiency

**PSI 115. Observational Astronomy (MOTR ASTR 100L). 1 Credit Hour.**
Observational Astronomy presents both astronomical viewing and laboratory experimentation. Through direct observation, students will become familiar with constellations, planets, moons, stars, clusters, and nebulae, and will learn how to use small telescopes and other simple equipment. This course may accompany PSI 111 (Introduction to Astronomy I) or may be taken independently. No prior knowledge of astronomy is necessary.
Prerequisites: Reading Proficiency

**PSI 123. Meteorology (MOTR PHYS 110AS). 3 Credit Hours.**
Meteorology introduces the student to the basic concepts involved in the analysis of weather phenomena on the global and local scale. Topics include heat balance, atmospheric stability, precipitation processes, pressure systems, air masses, fronts, clouds, the jet stream, air-ocean interaction (El Nino and La Nina), thunderstorm and severe weather, hurricanes, and an introduction to weather forecasting. Particular attention is devoted to current weather analysis.
Prerequisites: Reading Proficiency

**PSI 125. Introduction to Atmospheric Science (MOTR PHYS 110LAS). 4 Credit Hours.**
Introduction to Atmospheric Science covers the basic principles of atmospheric processes. This course involves working with current weather maps and analyzing real-time weather information. The basic physical principles of atmospheric conditions are stressed through the study of weather data. Labs integrated throughout the course allow students to apply the scientific method by formulating a hypothesis, interpreting data, and deriving a conclusion based on scientific data. The course is designed for students in non-science and career curricula.
Prerequisites: MTH 020 or higher with a minimum grade of "C" or placement into MTH 140 or higher, and Reading Proficiency

# Physical Therapist Assistant (PTA)

## Course Descriptions

**PTA 100. Introduction to Physical Therapist Assistant. 2 Credit Hours.**
This course provides an introduction to the professional field of physical therapy and the role of the physical therapist assistant in the health care system. Legal and ethical questions are discussed, as well as interpersonal communication skills, personality types, and the importance of empathy and respect for all patients. Students are introduced to medical terminology, documentation, and case studies in PT. A semester-long service-learning project is included to improve active listening skills and personal awareness.
Prerequisites: Admission to the Physical Therapist Assistant program and Reading Proficiency

**PTA 110. Kinesiology Fundamentals. 5 Credit Hours.**
Kinesiology Fundamentals is the study of human movement. It involves applying principles of biomechanics as well as anatomy and physiology of the musculoskeletal system to functional movement. Emphasis is placed on exercise principles and the analysis of postures and motions typical of physical therapy practice.
Prerequisites: BIO 207 with a minimum grade of "C" and Reading Proficiency

**PTA 120. Applied Science of the Movement System. 3 Credit Hours.**
Applied Science of the Movement System is a study of the integration of the structure and function of the integumentary, endocrine, skeletal, muscular, nervous, cardiac, respiratory, hematologic, lymphatic, sensory, and gastrointestinal systems as they relate to human movement.
Prerequisites: Concurrent or prior enrollment in BIO 208 with a minimum grade of "C" and Reading Proficiency

**PTA 130. Data Collection and Intervention Techniques for the Physical Therapist Assistant. 4 Credit Hours.**
Data Collection and Intervention Techniques for the Physical Therapist Assistant introduces vital signs, sterile techniques, dressing changes, emergency procedures, and goniometry. Students learn muscle testing, gait examination, and the cardiovascular response to exercise. Techniques to develop flexibility, strength, power, and endurance are also introduced.
Prerequisites: Admission to the Physical Therapist Assistant program, concurrent or prior enrollment in PTA 222 or PTA 110 with a minimum grade of "C" and Reading Proficiency

**PTA 140. Fundamentals of Patient Care for the Physical Therapist Assistant. 4 Credit Hours.**
Fundamentals of Patient Care for the Physical Therapist Assistant is an introduction to the basic patient care skills in physical therapy. Treatment procedures include patient positioning, transfer techniques, massage, gait with and without assistive devices, wheelchair management, and architectural barriers. Emphasis throughout is on safety, the preparation of the patient physically and psychologically, appropriate physical therapist assistant/patient interaction, and patient/caregiver teaching. (Credit is only allowed for either PTA 105 or PTA 140.)
Prerequisites: PTA 214 or PTA 130 with a minimum grade of "C" and Reading Proficiency

**PTA 150. Medical Conditions in Rehabilitation. 3 Credit Hours.**
Medical Conditions in Rehabilitation provides an overview of disease conditions commonly encountered for treatment in physical therapy departments. (Credit is only allowed for either PTA 215 or PTA 150.)
Prerequisites: BIO 208 with a minimum grade of "C" and Reading Proficiency

**PTA 200. Clinical Education I. 3 Credit Hours.**
Clinical Education I provides students with the opportunity to practice communication, interpersonal, technical, and administrative skills acquired in the first year of study in a clinical facility under the direction and supervision of a licensed clinical instructor for 36 hours a week for 5 weeks. (Credit is only allowed for either PTA 104 or PTA 200.)
Prerequisites: PTA 105 or PTA 140 with a minimum grade of "C" and Reading Proficiency

**PTA 206. Physical Agents. 3 Credit Hours.**
Physical Agents provides physical therapist assistant students with scientific knowledge and clinical application skills required to safely and efficiently provide treatment under the direction of a physical therapist with the following physical and thermal agents. (Credit is only allowed for either PTA 211 or PTA 206.)
Prerequisites: PTA 105 or PTA 140 with a minimum grade of "C" and Reading Proficiency

**PTA 220. Therapeutic Exercise and Rehabilitation Concepts I. 7 Credit Hours.**
Therapeutic Exercise and Rehabilitation Concepts I covers data collection and intervention techniques used by the physical therapist assistant under the direction and supervision of the physical therapist in the treatment of arthritis, postural abnormalities, extremity and spinal dysfunctions, abnormal gait, cardiopulmonary conditions, and amputations. The principles and application of prosthetic and orthotic devices will also be included. (Credit is only allowed for either PTA 212 or PTA 220.)
Prerequisites: PTA 105 or PTA 140 with a minimum grade of "C" and Reading Proficiency

**PTA 230. Therapeutic Exercise and Rehabilitation Concepts II. 3 Credit Hours.**
Therapeutic Exercise and Rehabilitation Concepts II includes data collection and treatment intervention techniques performed by the physical therapist assistant (PTA) for pediatric and neurological conditions. The role of the physical therapist assistant in assisting the physical therapist to identify community integration barriers for clients with physical disabilities will also be discussed. (Credit is only allowed for either PTA 213 or PTA 230.)
Prerequisites: PTA 212 or PTA 220 with a minimum grade of "C" and Reading Proficiency

**PTA 240. Health Occupation Seminar. 2 Credit Hours.**
Health Occupation Seminar is a study of the health care system and the role of physical therapist assistants within it. Topics include health care organizations, therapy department policies and procedures, evidence-based research, professionalism, legal and ethical issues, community resources, documentation, billing and coding, and application for licensure and employment. (Credit is only allowed for either PTA 208 or PTA 240.)
Prerequisites: PTA 212 or PTA 220 with a minimum grade of "C" and Reading Proficiency

**PTA 250. Clinical Education II. 4 Credit Hours.**
Clinical Education II provides students with an opportunity to practice skills acquired in a clinical facility under the direction and supervision of a clinical instructor for 36 hours a week for 6 weeks. (Credit is only allowed for either PTA 216 or PTA 250.)
Prerequisites: PTA 104 or PTA 200 with a grade of "S" and Reading Proficiency

**PTA 260. Clinical Education III. 4 Credit Hours.**
Clinical Education III provides students with an opportunity to practice skills acquired in the first and second year of the program in a clinical facility under the direction and supervision of a clinical instructor for 36 hours a week for 6 weeks. (Credit is only allowed for either PTA 217 or PTA 203 or PTA 260.)
Prerequisites: PTA 104 or PTA 200 with a grade of "S" and Reading Proficiency

# Physics (PHY)

## Course Descriptions

**PHY 111. College Physics I (MOTR PHYS 150L). 4 Credit Hours.**
College Physics I is a non-calculus introduction to physical theories including kinematics, mechanics, work and energy, gravity, momentum, waves, heat, and thermodynamics. The course is the first semester of a two-semester algebra-level physics sequence.
Prerequisites: MTH 160 (or MTH 160S) with a minimum grade of "C" and Reading Proficiency

**PHY 112. College Physics II. 4 Credit Hours.**
This course is the second semester of a two-semester non-calculus physics sequence. The entire sequence covers topics in mechanics, heat, sound, electricity, magnetism, optics and modern physics. Additional lab hours required.
Prerequisites: PHY 111 with a minimum grade of "C" and Reading Proficiency

**PHY 122. Engineering Physics I (MOTR PHYS 200L). 5 Credit Hours.**
Engineering Physics I covers topics in units, vectors, motion in one dimension and two dimensions, Newton's Laws of Motion, forces, work, kinetic energy, potential energy, momentum, collisions, rotational motion, fluid, gravitation, temperature, and heat. The course is the first semester of a two-semester calculus-level physics sequence.
Prerequisites: MTH 210 with a minimum grade of "C" and Reading Proficiency

**PHY 223. Engineering Physics II. 5 Credit Hours.**
Engineering Physics II covers topics in electric charge, electric fields, electric potential, electric potential energy, current, voltage, resistance, electric circuits, electric power, electrical energy, magnetic fields, electric motor, electric generator, light, waves, mirrors, and lenses. The course is the second semester of a two-semester calculus-level physics sequence.
Prerequisites: PHY 122 and MTH 220 with a minimum grades of "C" and Reading Proficiency

# Political Science (PSC)

## Course Descriptions

**PSC 101. Introduction to American Politics (MOTR POSC 101). 3 Credit Hours.**
Introduction to American Politics surveys the American political system. Basic values endemic to United States political culture, government institutions and processes, as well as citizens' movements, are discussed in a modern framework.
Prerequisites: Reading Proficiency or concurrent enrollment in RDG 079

**PSC 104. British Politics and Society. 3 Credit Hours.**
This course introduces students to some of the main institutions and issues of contemporary British politics and society. Through lectures, videos, text assignments, and field trips, students will explore government in 21st-century Britain.
Prerequisites: Reading Proficiency

**PSC 201. International Relations (MOTR POSC 201). 3 Credit Hours.**
International Relations looks at the politics and policies among nations. Topics discussed include theories of international politics, levels of foreign policy analysis, conflict and peace, terrorism, globalization, international political economy, and the specific foreign policies of great, middle, and small states.
Prerequisites: Reading Proficiency

**PSC 205. Constitutional Issues. 3 Credit Hours.**
Constitutional Issues covers the concepts of American federalism, civil liberties, civil rights, and the responsibilities of citizenship. Basic values, current constitutional controversies, and citizen rights are discussed in a modern framework with particular emphasis upon important U.S. case law.
Prerequisites: Reading Proficiency

**PSC 213. Introduction to Comparative Politics (MOTR POSC 202). 3 Credit Hours.**
Introduction to Comparative Politics introduces students to western and non-western systems. It examines similarities and differences in the basic political ideologies, structures, economies, social institutions, and governmental processes of developed and developing countries. It also provides frameworks for understanding the cultures of the world that are the basis for formal economic and political institutions. In addition, the course examines the role of non-state and trans-national institutions in shaping national policies. It uses case studies from Africa, Asia, Latin America, as well as Europe, to enhance student understanding of comparative politics.
Prerequisites: Reading Proficiency

# Psychology (PSY)

## Course Descriptions

**PSY 150. Psychology of Human Sexuality. 3 Credit Hours.**
Psychology of Human Sexuality is a survey of the psychological research and theories of human sexuality. Students will explore a variety of topics related to human sexuality and consider the way sexuality may impact their own lives.
Prerequisites: Reading Proficiency or concurrent enrollment in RDG 079

**PSY 200. General Psychology (MOTR PSYC 100). 3 Credit Hours.**
General Psychology is an introduction to the scientific study of human behavior. In this course, students gain insights into their own and others' behavior. A variety of topics relating to psychological theories, concepts, methods, and research findings are covered. (Credit is only allowed for either PSY 200 or PSY 201.)
Prerequisites: Reading Proficiency or concurrent enrollment in RDG 079

**PSY 203. Child Psychology. 3 Credit Hours.**
This course is an overview of child psychology the scientific study of the psychological basis of child growth and development. Emotional, mental, physical and social needs and developmental processes of infancy, childhood and adolescence are covered; nature and nurture interactions and processes during prenatal development and pregnancy are also covered. This course includes an analysis of a variety of home, school and community factors as they interact to influence behavior, personality, and development.
Prerequisites: PSY 200 with a minimum grade of "C" and Reading Proficiency

**PSY 205. Human Growth and Development (MOTR PSYC 200). 3 Credit Hours.**
Human Growth and Development is a survey of the basic progression of human development through the life cycle. Biological, cognitive, and socioemotional needs of children, adolescents, and adults are reviewed. The multiple factors which influence and shape behavior and personality are analyzed.
Prerequisites: PSY 200 with a minimum grade of "C" and Reading Proficiency

**PSY 206. Introduction to Social Psychology. 3 Credit Hours.**
Introduction to Social Psychology is a course of the role of the self, cognition, culture, and situational factors that play a part in social situations. Specifically, this course explores social thinking, social influences, social relations, and the application of these processes in everyday life. Topics include attribution, conformity, obedience, persuasion, group influence, prejudice, attraction, aggression, and prosocial behavior.
Prerequisites: PSY 200 with a minimum grade of "C" and Reading Proficiency

**PSY 208. Abnormal Psychology. 3 Credit Hours.**
This course is a survey of mental disorders as categorized in the American Psychological Association's Diagnostic and Statistical Manual of Mental Disorders. The symptoms, causes and treatments of various mental disorders will be covered. This includes anxiety disorders, mood disorders, eating disorders, somatic complaint related disorders, dissociative disorders, substance abuse disorders, sexual dysfunctions and disorders and schizophrenia.
Prerequisites: PSY 200 with a minimum grade of "C" and Reading Proficiency

**PSY 214. Adolescent Psychology. 3 Credit Hours.**
This course is an overview of adolescent psychology, the study of the individual from puberty to young adulthood. The course explores the physiological, cognitive, social, and emotional changes in adolescence, specifically examining the biological basis and environmental contributions to adolescent thought and behavior. Issues facing adolescents will also be discussed including gender, self, family, peers, sexuality, education, work, and problems in adolescence.
Prerequisites: PSY 200 with a minimum grade of "C" and Reading Proficiency

# Radiologic Technology (XRT)

## Course Descriptions

**XRT 100. Orientation to Radiologic Technology. 1 Credit Hour.**
Orientation to Radiologic Technology provides the student with an overview of all aspects of the radiology department and the responsibilities of a radiologic technologist.
Prerequisites: Current enrollment in the Radiologic Technology program and Reading Proficiency

**XRT 101. Radiographic Procedures I. 4 Credit Hours.**
Radiographic Procedures I covers radiographic anatomy, positioning, and examination procedures for the chest, abdomen, upper extremity, and lower extremity. Considerations for geriatric, mobile, and pediatric radiography are also covered in this course. Basic radiation protection, patient care procedures, and radiographic terminology are presented.
Prerequisites: Current enrollment in the Radiologic Technology program and Reading Proficiency

**XRT 102. Radiographic Procedures II. 4 Credit Hours.**
Radiographic Procedures II covers radiographic anatomy, positioning, and examination procedures for the pelvic girdle, vertebral column, bony thorax, and gastrointestinal system.
Prerequisites: Current enrollment in the Radiologic Technology program, XRT 101 and XRT 121 with minimum grades of "C", and Reading Proficiency

**XRT 103. Radiographic Procedures III. 3 Credit Hours.**
This course covers radiographic positioning, anatomy and examination procedures of the cranium and sinuses. The procedures and principles of surgical and trauma radiography are presented. The student will be introduced to various patient care and management considerations and pharmacology principles. Additional lab hours required.
Prerequisites: Current enrollment in the Radiologic Technology program, XRT 102 and XRT 116 with minimum grades of "C", and Reading Proficiency
Corequisites: XRT 108, XRT 122, XRT 213

**XRT 104. Principles of Radiographic Exposure I. 3 Credit Hours.**
Principles of Radiographic Exposure I gives students a foundation in radiographic image acquisition and evaluation of image quality. An in-depth coverage of technical factors and image characteristics will be presented.
Prerequisites: Current enrollment in the Radiologic Technology program and Reading Proficiency

**XRT 105. Principles of Radiographic Exposure II. 3 Credit Hours.**
Principles of Radiographic Exposure II introduces the fundamental principles of radiologic science, including atomic structure, electricity, magnetism, radiation physics, and x-ray production. Students explore equipment operation, circuit design, exposure factors, and radiation safety practices, with an emphasis on image quality and patient protection.
Prerequisites: Current enrollment in the Radiologic Technology program, XRT 104 with a minimum grade of "C" and Reading Proficiency

**XRT 107. Radiologic Physics I. 2 Credit Hours.**
This course covers the fundamental principles of radiation physics and equipment to include the study of x-ray tubes, rating charts, radiation control devices and automatic processing.
Prerequisites: XRT 104 and XRT 111 with minimum grades of "C" and Reading Proficiency
Corequisites: XRT 102, XRT 105, XRT 112

**XRT 108. Radiologic Physics II. 2 Credit Hours.**
This course examines the x-ray machine through discussion of basic electrical concepts and circuit design. The course also examines x-ray tubes, high voltage sources and exposure timers.
Prerequisites: XRT 105, XRT 107, and XRT 116 with minimum grades of "C" and Reading Proficiency
Corequisites: XRT 103, XRT 122, XRT 213

**XRT 111. Clinical Education I. 1 Credit Hour.**
Clinical Education I introduces students to the responsibilities of a radiologic technologist in the clinical setting. This course enables students to observe all aspects of a radiologic technology department and provides them with the opportunity to work alongside experienced radiologic technologists.
Prerequisites: Current enrollment in Radiologic Technology program and Reading Proficiency

**XRT 112. Clinical Education II. 2 Credit Hours.**
Clinical Education II provides students with the skills required to practice basic to intermediate clinical applications. This course reinforces patient care, positioning, and image evaluation.
Prerequisites: Current enrollment in the Radiologic Technology program, XRT 111 with a minimum grade of "C", and Reading Proficiency

**XRT 116. Summer Clinical. 3 Credit Hours.**
Summer Clinical provides students with the skills necessary to practice basic to intermediate clinical applications. Students will perform all aspects of radiographic procedures, including patient care, positioning, and image evaluation.
Prerequisites: Current enrollment in the Radiologic Technology program, XRT 111 with a minimum grade of "C", and Reading Proficiency

**XRT 120. Radiobiology. 2 Credit Hours.**
Radiobiology explores the biological consequences of radiation exposure on the human body. The principles of radiation protection are examined.
Prerequisites: Current enrollment in the Radiologic Technology program, XRT 100, XRT 101, and XRT 104 with a minimum grade of "C", and Reading Proficiency

**XRT 121. Radiographic Image Evaluation I. 2 Credit Hours.**
Radiographic Image Evaluation I provides a critical analysis of radiographic images in the examination of the respiratory, abdominal, upper extremity, and lower extremity.
Prerequisites: Current enrollment in the Radiologic Technology program and Reading Proficiency

**XRT 122. Radiographic Image Evaluation II. 2 Credit Hours.**
Radiographic Image Evaluation II provides a critical analysis of radiographic images of the pelvic girdle, vertebral column, bony thorax, and gastrointestinal system.
Prerequisites: Current enrollment in the Radiologic Technology program, XRT 101 and XRT 121 with a minimum grade of "C", and Reading Proficiency

**XRT 207. Radiologic Pathology. 2 Credit Hours.**
Radiologic Pathology presents the more commonly encountered lesions of the human body as seen through the medium of x-ray. Anatomy and physiology of pathologic processes are presented by body systems to explore the rationale for many intricate radiologic examinations.
Prerequisites: Current enrollment in the Radiologic Technology program, XRT 102 and XRT 122 with a minimum grade of "C", and Reading Proficiency

**XRT 208. Advanced Imaging Modalities. 2 Credit Hours.**
This course presents advanced imaging modalities with an emphasis on computed tomography. Additional modalities introduced are digital radiography, magnetic resonance, sonography, nuclear medicine, radiation therapy, mammography, bone densitometry, fluoroscopy, linear tomography and fusion technology. The procedures and principles of interventional radiography are presented.
Prerequisites: XRT 105 with a minimum grade of "C" and Reading Proficiency
Corequisites: XRT 207, XRT 209, XRT 214

**XRT 209. Radiobiology. 2 Credit Hours.**
This course is designed to explore the biological consequences of radiation exposure on the human body. The principles of radiation protection will be examined.
Prerequisites: XRT 103 and XRT 108 with minimum grades of "C" and Reading Proficiency
Corequisites: XRT 207, XRT 208, XRT 214

**XRT 211. Radiologic Technology Capstone Course. 4 Credit Hours.**
Radiologic Technology Capstone Course provides a comprehensive review of the major components of radiologic technology in preparation for the American Registry of Radiologic Technologists (ARRT) national certification exam.
Prerequisites: Current enrollment in the Radiologic Technology program, XRT 226 and XRT 223 with a minimum grade of "C", and Reading Proficiency

**XRT 212. Professional Development in Radiography. 2 Credit Hours.**
This course explores topics in the field of radiologic technology. Those topics include current trends in the imaging profession, career options, the importance of continuing education to the profession and professional traits of a registered Radiologic Technologist.
Prerequisites: XRT 207, XRT 208, XRT 209, and XRT 214 with minimum grades of "C", and Reading Proficiency
Corequisites: XRT 211, XRT 215

**XRT 213. Clinical Education III. 3 Credit Hours.**
Clinical Education III provides the student with the skills required to practice intermediate and advanced clinical applications. This course introduces radiologic procedures in pediatrics, surgery, and trauma.
Prerequisites: Current enrollment in the Radiologic Technology program, XRT 116 with a minimum grade of "C", and Reading Proficiency

**XRT 214. Clinical Education IV. 3 Credit Hours.**
Clinical Education IV provides the student with the clinical time to hone their skills in all aspects of clinical applications. This course introduces radiologic procedures in advanced modalities.
Prerequisites: Current enrollment in the Radiologic Technology program, XRT 213 with a minimum grade of "C", and Reading Proficiency

**XRT 215. Clinical Education VI. 2 Credit Hours.**
This course is designed to provide the student with the opportunity to complete all American Registry of Radiologic Technologists (ARRT) and Radiography program remaining clinical competency requirements.
Prerequisites: XRT 214 with a minimum grade of "C" and Reading Proficiency
Corequisites: XRT 211, XRT 212

**XRT 223. Radiographic Procedures III. 3 Credit Hours.**
Radiographic Procedures III covers radiographic positioning, anatomy, and examination procedures of the cranium and sinuses. The procedures and principles of surgical and trauma radiography are presented. The student is introduced to various patient care and management considerations, as well as pharmacology principles.
Prerequisites: Current enrollment in the Radiologic Technology program, XRT 102 and XRT 122 with a minimum grade of "C" and Reading Proficiency

**XRT 226. Principles of Radiographic Exposure III. 3 Credit Hours.**
Principles of Radiographic Exposure III is an in-depth coverage of image acquisition technologies, accessories, advanced technical factor selection, and effects on image quality and patient exposure.
Prerequisites: Current enrollment in the Radiologic Technology program, XRT 105 with a minimum grade of "C", and Reading Proficiency

# Reading (RDG)

## Course Descriptions

**RDG 030. Introduction to College Reading. 3 Credit Hours.**
Introduction to College Reading is designed to develop college-level reading comprehension, vocabulary, and study skills.
Corequisites: STR 050

**RDG 079. Academic Literacy. 3 Credit Hours.**
Academic Literacy is a developmental course emphasizing reading in the content areas. This course is designed for students who wish to improve reading skills for success in college-level courses.
Corequisites: ACC 100, ANT 101, ANT 102, ART 100, AUT 158, BIO 109, BIO 111, CHM 101, DIE 100, EE 130, EGR 100, ENG 101, GEG 101, GEO 100, HRT 101, HST 101, HST 102, HST 137, HUM 106, HUM 109, ME 154, MUS 114, MUS 128, PHL 101, PHL 103, PHL 104, PSC 101, PSY 200, SOC 101, or THT 101

**RDG 100. College Reading and Study Skills. 3 Credit Hours.**
This is an advanced course emphasizing reading in the content areas. The major focus is on study techniques applicable to transfer level courses.
Prerequisites: Reading Proficiency

# Respiratory Care (RC)

## Course Descriptions

**RC 100. Foundations of Respiratory Care. 3 Credit Hours.**
Foundations of Respiratory Care introduces students to the profession of respiratory care. The course will include the history of the profession, as well as the current and future roles of the respiratory care practitioner. The application of patient safety, communication, ethics, physical sciences, and microbiology to the field of respiratory care will be covered. This course will also include an overview of medical terminology.
Prerequisites: Reading Proficiency

**RC 110. Cardiopulmonary Anatomy and Physiology. 3 Credit Hours.**
Cardiopulmonary Anatomy and Physiology is an in-depth study of the anatomy and physiology of the respiratory system. Pulmonary physiological principles discussed will include ventilation, perfusion, diffusion, and blood gas transport. The course will conclude with an overview of the anatomy and physiology of the cardiovascular system. (Credit is only allowed for either RC 110 or RTH 222.)
Prerequisites: Admission to the AAS Respiratory Care or BS Respiratory Care Program, BIO 208 with a minimum grade of "C", and Reading Proficiency

**RC 120. Respiratory Care Practices I. 6 Credit Hours.**
Respiratory Care Practices I provides classroom instruction and laboratory practice of the respiratory care practices utilized to administer general respiratory care. Areas of concentration will include storage and delivery of medical gases, humidity and aerosol therapy, aerosol drug therapy, lung expansion therapy, and airway clearance therapy. (Credit is only allowed for either RC 120 or RTH 120.)
Prerequisites: Program Admission, BIO 208 with a minimum grade of "C", and Reading Proficiency

**RC 125. Fundamentals of Respiratory Care. 6 Credit Hours.**
Fundamentals of Respiratory Care provides classroom instruction of the initial contact with and assessment of respiratory care patients. Diagnostic and therapeutic practices utilized to administer basic respiratory care will be discussed.
Prerequisites: Admission to the AAS Respiratory Care or BS Respiratory Care Program, BIO 208 with a minimum grade of "C", and Reading Proficiency
Corequisites: RC 135

**RC 130. Patient Assessment. 2 Credit Hours.**
Patient Assessment provides classroom instruction pertaining to the initial contact with and assessment of respiratory care patients. Topics to be covered include principles of infection control, obtaining a medical history, vital signs, pulse oximetry, advanced patient assessment techniques, and documentation. The course will conclude with information of some of the most common diagnostic tests used in respiratory care. (Credit is only allowed for either RC 130 or RTH 121.)
Prerequisites: Program Admission, BIO 208 with a minimum grade of "C" and Reading Proficiency

**RC 135. Fundamentals of Respiratory Care Lab. 2 Credit Hours.**
Fundamentals of Respiratory Care Lab provides hands-on instruction and practice of the assessment and treatment of patients utilizing basic respiratory care procedures.
Prerequisites: Admission to the AAS Respiratory Care or BS Respiratory Care Program, BIO 208 with a minimum grade of "C", and Reading Proficiency
Corequisites: RC 125

**RC 140. Respiratory Pharmacology. 2 Credit Hours.**
Respiratory Pharmacology provides information regarding the pharmacologic agents used in treatment of cardiopulmonary diseases. The course addresses pharmacological principles as well as the indications and application of medications used in the treatment of cardiopulmonary diseases. (Credit is only allowed for either RC 140 or RTH 127.)
Prerequisites: Concurrent or prior enrollment in RC 110 with a minimum grade of "C", and Reading Proficiency

**RC 150. Fundamentals of Respiratory Care II. 4 Credit Hours.**
Fundamentals of Respiratory Care II provides classroom instruction and laboratory practice of the respiratory care practices and procedures utilized to assess, diagnose, and treat patients with cardiopulmonary disease. Areas of concentration include arterial blood gas analysis and interpretation, clinical laboratory findings, capnography, assisting a physician during special procedures, and airway management. (Credit is only allowed for either RC 150 or RTH 125 and RTH 128.)
Prerequisites: RC 110, RC 125 or RC 120, and RC 135 or RC 130 with minimum grades of "C", and Reading Proficiency

**RC 160. Mechanical Ventilation I. 4 Credit Hours.**
Mechanical Ventilation I provides classroom instruction and laboratory practice for providing positive pressure ventilation to patients through a variety of methods. Students will gain an understanding of initiating, assessing, and modifying various modes and settings. (Credit is only allowed for either RC 160 or RTH 126.)
Prerequisites: RC 110, RC 125 or RC 120, and RC 135 or RC 130 with minimum grades of "C", and Reading Proficiency

**RC 170. Respiratory Care Clinical Practice I. 1 Credit Hour.**
Respiratory Care Clinical Practice I focuses on the application of general respiratory care principles in the hospital setting. Students receive a hospital orientation, assess patients, and provide general floor care that may include but is not limited to oxygen therapy, humidity and bland aerosol therapy, hyperinflation therapy, airway clearance therapies, and aerosolized medication therapy. (Credit is only allowed for either RC 170 or RTH 140.)
Prerequisites: RC 100, RC 110, RC 120, RC 130 all with minimum grades of "C", and Reading Proficiency

**RC 180. Cardiopulmonary Diseases. 3 Credit Hours.**
Cardiopulmonary Diseases addresses the etiology, pathology, clinical manifestations, diagnosis, and treatment of various cardiopulmonary diseases. Students will learn to apply evidence-based guidelines to the treatment of cardiopulmonary disease. (Credit is only allowed for either RC 180 or RTH 220.)
Prerequisites: RC 125 or RC 120 and RC 140 with minimum grades of "C", and Reading Proficiency

**RC 190. Respiratory Care Clinical Practice II. 1 Credit Hour.**
Respiratory Care Clinical Practice II will allow students more time to assess patients and apply general respiratory care principles in the hospital setting. The course will also include an introduction to the assessment and care of patients in the intensive care unit. (Credit is only allowed for either RC 190 or RTH 146.)
Prerequisites: RC 140, RC 150, RC 160, RC 170 all with minimum grades of "C", and Reading Proficiency

**RC 199. Respiratory Care Review. 1 Credit Hour.**
Respiratory Care Review provides review and remediation of respiratory care knowledge and skills for Respiratory Care students who are re-entering the Respiratory Care Program.
Prerequisites: Program Coordinator Permission and Reading Proficiency

**RC 200. Adult Critical Care. 3 Credit Hours.**
Adult Critical Care provides the student an understanding of the assessment, diagnosis, and management of an adult patient who is critically ill. Information will include the interpretation of electrocardiograms, Advanced Cardiac Life Support (ACLS), hemodynamic monitoring, critical care medications, and end-of-life care. (Credit is only allowed for either RC 200 or RTH 221.)
Prerequisites: RC 180 with grade of "C" or higher, and Reading Proficiency

**RC 210. Mechanical Ventilation II. 4 Credit Hours.**
Mechanical Ventilation II provides classroom instruction and laboratory practice of advancing topics centered around invasive mechanical ventilation. Topics will include methods to improve oxygenation and ventilation, troubleshooting, graphics analysis, and weaning invasive mechanical ventilation. The course will provide discussion on advanced modes and settings, high-frequency ventilation, and long-term ventilation strategies. (Credit is only allowed for either RC 210 or RTH 223.)
Prerequisites: RC 150, RC 160, and RC 180 with grades of "C" or higher, and Reading Proficiency

**RC 220. Neonatal and Pediatric Respiratory Care. 3 Credit Hours.**
Neonatal and Pediatric Respiratory Care provides classroom instruction of the respiratory care practices and procedures utilized to assess, diagnose, and treat neonatal and pediatric patients with cardiopulmonary disease. The etiology, pathophysiology, clinical manifestations, diagnosis, and management of neonatal and pediatric cardiopulmonary diseases will be discussed. The non-invasive and invasive mechanical ventilation concepts for this patient population will also be reviewed. (Credit is only allowed for either RC 220 or RTH 131.)
Prerequisites: RC 180 and RC 190 with grades of "C" or higher, and Reading Proficiency

**RC 230. Respiratory Care Clinical Practice III. 2 Credit Hours.**
Respiratory Care Clinical Practice III will focus on the assessment of patients and application of respiratory care in the critical care setting. Specialty rotations may include, but are not limited to: neonatal and pediatric respiratory care, airway management, and long-term care. (Credit is only allowed for either RC 230 or RTH 240.)
Prerequisites: RC 180 and RC 190 with grades of "C" or higher, and Reading Proficiency

**RC 240. Respiratory Care Specialties. 3 Credit Hours.**
Respiratory Care Specialties provides an introduction to the specialty areas in which a respiratory care practitioner can work. (Credit is only allowed for either RC 240 or RTH 225.)
Prerequisites: RC 180 with a grade of "C" or higher, and Reading Proficiency

**RC 250. Respiratory Care Capstone. 4 Credit Hours.**
Respiratory Care Capstone provides an overview of the research process used in respiratory care. The course will also discuss leadership roles in the field. Students will be given an opportunity to complete a project centered around respiratory care leadership or research. The course will also provide students with an opportunity to practice for the National Board for Respiratory Care (NBRC) exams required to obtain the Registered Respiratory Therapist (RRT) credential. (Credit is only allowed for either RC 250 or RTH 228.)
Prerequisites: RC 200, RC 210, RC 220, RC 230 all with grades of "C" or higher, and Reading Proficiency

**RC 260. Respiratory Care Clinical Practice IV. 2 Credit Hours.**
Respiratory Care Clinical Practice IV focuses on the assessment of patients and the application of respiratory care in the critical care setting. Specialty rotations may include, but are not limited to: neonatal and pediatric respiratory care, airway management, and long-term care. (Credit is only allowed for either RC 260 or RTH 245.)
Prerequisites: RC 200, RC 210, RC 220, RC 230 all with grades of "C" or higher, and Reading Proficiency

**RC 300. Clinical Practice I. 1 Credit Hour.**
Clinical Practice I will serve as an introductory clinical experience focusing on the application of general respiratory care principles in the hospital setting. Students will receive an introduction to the hospital, have the ability to build patient assessment skills, deliver general respiratory care that includes, but is not limited to: oxygen administration and titration, delivery of humidity and bland aerosols, administration of medicated aerosols, lung expansion therapy, airway clearance therapy, and patient documentation.
Prerequisites: Admission to the BSRC program, and Reading Proficiency

**RC 310. Neonatal Respiratory Care. 2 Credit Hours.**
Neonatal Respiratory Care provides classroom instruction of the respiratory care practices and procedures utilized to assess, diagnose, and treat neonatal patients with cardiopulmonary disease. The etiology, pathophysiology, clinical manifestations, diagnosis, and management of neonatal cardiopulmonary diseases will be discussed.
Prerequisites: RC 150, RC 160, RC 180 all with grades of "C" or higher, and Reading Proficiency

**RC 320. Pediatric Respiratory Care. 2 Credit Hours.**
Pediatric Respiratory Care provides classroom instruction of the respiratory care practices and procedures utilized to assess, diagnose, and treat pediatric patients with cardiopulmonary disease. The etiology, pathophysiology, clinical manifestations, diagnosis, and management of pediatric cardiopulmonary diseases will be discussed.
Prerequisites: RC 310 and RC 380 with grades of "C" or higher, and Reading Proficiency
Corequisites: RC 330

**RC 330. Neonatal and Pediatric Respiratory Care Lab. 1 Credit Hour.**
Neonatal and Pediatric Respiratory Care Lab provides laboratory instruction and practice of assessment skills, use of equipment, and treatment modalities utilized in the care of the neonatal and pediatric patients with cardiopulmonary disorders.
Prerequisites: RC 310 and RC 380 with grades of "C" or higher, and Reading Proficiency
Corequisites: RC 320

**RC 340. Clinical Practice II. 1 Credit Hour.**
Respiratory Care Clinical Practice II will provide additional opportunities for students to build their skills in patient assessment and the administration of basic respiratory care. Students will additionally be exposed to the step-down areas of the hospital to observe airway management and non-invasive positive pressure ventilation applied at the bedside.
Prerequisites: RC 125 or RC 120, RC 135 or RC 130, RC 140, and RC 300 all with grades of "C" or higher, and Reading Proficiency

**RC 380. Clinical Practice III. 1 Credit Hour.**
Respiratory Care Clinical Practice III will serve as an introduction to the critical care areas of the hospital and providing respiratory care to the critically ill patient.
Prerequisites: RC 150, RC 160, RC 180, and RC 340 all with grades of "C" or higher, and Reading Proficiency

**RC 400. Clinical Practice IV. 2 Credit Hours.**
Clinical Practice IV focuses on providing all aspects of respiratory care in the critical care setting. Specialty rotations may include, but are not limited to emergency care, airway management, neonatal and pediatric respiratory care, and long-term acute care.
Prerequisites: RC 310, RC 380, and RC 240 all with grades of "C" or higher, and Reading Proficiency

**RC 410. Respiratory Care Management. 3 Credit Hours.**
Respiratory Care Management will focus on the study of management principles and problems as they relate to respiratory care and the management of the department, hospital, service organization, and health care programs.
Prerequisites: RC 200, RC 210, RC 320, and RC 400 all with grades of "C" or higher, and Reading Proficiency

**RC 420. Respiratory Care Research. 3 Credit Hours.**
Respiratory Care Research will discuss the research problems and methods utilized in respiratory care. Strategies for literature review, development of a study idea, and the publishing of a research study will be reviewed.
Prerequisites: RC 200, RC 210, RC 320, and RC 400 all with grades of "C" or higher, and Reading Proficiency

**RC 430. Health Education and Disease Management. 3 Credit Hours.**
Health Education and Disease Management examines the role of the respiratory therapist as an educator. Community health education, health promotion, and formal education will also be reviewed. The course will include disease management techniques shown to improve quality of life through the education of patients and other care providers.
Prerequisites: RC 200, RC 210, RC 320, and RC 400 all with grades of "C" or higher, and Reading Proficiency

**RC 440. Respiratory Care Capstone. 1 Credit Hour.**
Respiratory Care Capstone will provide an opportunity for students to design a research study that impacts evidence-based respiratory care practice, education, or administration. The course will include preparation for the National Board for Respiratory Care (NBRC) board exams to obtain the Registered Respiratory Therapy (RRT) Credential.
Prerequisites: RC 200, RC 210, RC 320, and RC 400 all with grades of "C" or higher, and Reading Proficiency

**RC 450. Clinical Practice V. 3 Credit Hours.**
Clinical Practice V provides the student an opportunity to complete a clinical externship. Clinical hours will be scheduled and completed alongside a designated clinical preceptor at a chosen facility. The focus of this course will be for the student to demonstrate proficiency in all aspects of respiratory care and prepare them for their transition from student to registered respiratory therapist. Specialty rotations may include but are not limited to: neonatal and pediatric respiratory care, airway management, emergency care, bronchoscopy, and long-term acute care.
Prerequisites: RC 200, RC 210, RC 330, RC 320, RC 400 all with grades of "C" or higher, and Reading Proficiency

# Skilled Trades (SKT)

## Course Descriptions

**SKT 102. Aerospace Assembly - Sheet Metal I. 4 Credit Hours.**
This course is designed to prepare students for entry into the fabrication of sheet metal assemblies for the aircraft production industry. The course provides entry-level skills in hole preparation and installation of fasteners, including rivets, lockbolts, nutplate installation and removal procedures, and safe practices related to manufacturing aircraft metal structures. Additional lab hours required. (Credit is only allowed for either SKT 102 or SKT 504.)
Prerequisites: ME 154 with a minimum grade of "C", SKT 101 with a minimum grade of "B", and Reading Proficiency

**SKT 103. Aerospace Assembly - Sheet Metal II. 3 Credit Hours.**
This is the second course in a series to prepare students for entry into the fabrication of sheet metal assemblies for the aircraft production industry. It covers topics in aerospace metal structures including gap, shim and sealing requirements and procedures. Additional lab hours required. (Credit is only allowed for either SKT 103 or SKT 505.)
Prerequisites: SKT 102 with a minimum grade of "B" and Reading Proficiency

**SKT 106. Electrical Training Alliance: Introduction to Electrical Professions. 2 Credit Hours.**
Electrical Training Alliance: Introduction to Electrical Professions is the introductory course to the Electrical Joint Apprenticeship and Training Committee. This course covers the International Brotherhood of Electrical Workers (IBEW) Constitution and local union by-laws, and the structure and heritage of the IBEW and National Electrical Contractors Association (NECA). Topics include workplace safety and leadership factors. students identify tools of the trade, proper safety techniques, proper uses of ladders, and proper measurement, and alignment techniques.

**SKT 107. Carpenter Joint Apprenticeship Program: Introduction to Carpentry. 2 Credit Hours.**
Introduction to Carpentry presents an overview of the Carpenters Joint Apprenticeship Program (CJAP) as well as the role of the carpenter on construction sites and the safety measures that are critical to the job. Specific equipment studied includes power tools, lifts, and scaffolds. Additionally, students will learn basic blueprint reading skills including the ability to distinguish the difference between different styles of drawings. Additional lab hours may be required.

**SKT 108. Carpenter Joint Apprenticeship Program: Workplace Learning I. 2 Credit Hours.**
Carpenter Joint Apprenticeship Program: Workplace Learning I is the component of on-the-job training experience of the First Year Carpenter Joint Apprenticeship Training Program. Students in this course will gain important workplace learning experience based on concepts learned in the first semester curriculum.

**SKT 109. Carpenter Joint Apprenticeship Program: Concrete Form Building. 3 Credit Hours.**
This course, Carpenter Joint Apprenticeship Program: Concrete Form Building, is a continuation of the Carpenter's Joint Apprenticeship Training program, and will introduce students to basic concrete forming applications and systems, hardware identification, multiple anchoring procedures, concrete terminology, and provide the skills needed for competency in concrete construction. Students will learn to read detailed construction plans, basic building layout procedures, how to establish evaluations and install footings. Students will be given an opportunity to read forming diagrams and apply hands-on construction of concrete forms. Additional lab hours may be required.

**SKT 110. Carpenter Joint Apprenticeship Program: Interior Trim. 3 Credit Hours.**
Interior Trim is a continuation of the Joint Carpenter Training Council Apprenticeship curriculum. This course is designed with an emphasis on the commercial building aspects of construction. The class offers students extensive instruction in rough and finish commercial applications using metal studs, reading and understanding commercial blueprints, International Building Codes (IBC) and applying proper layout techniques. The course covers crown-molding trim, wall framing, and the use of construction lasers for plumbing, squaring, straightening, and leveling. Additional lab hours may be required.

**SKT 111. Electrical Training Alliance: Electrical Conduit Fabrication. 2 Credit Hours.**
Electrical Conduit Fabrication is part of the first-year core Joint Electrical Training Council curriculum for new apprentices. This course introduces the basic concepts of conduit building. Students will identify and use proper tools, methods, and mathematical calculations to perform different types of bending for residential and commercial conduit assemblies. Additional lab hours may be required.

**SKT 112. Electrical Training Alliance: Workplace Learning I. 6 Credit Hours.**
Workplace Learning I is the component of "on-the-job training" experience of the First Semester Electrical Training Alliance Curriculum. Students will reinforce and apply concepts previously learned in coursework and in the workplace. Additional hours may be required.

**SKT 113. Carpenter Joint Apprenticeship Program: Basic Blueprint Reading. 2 Credit Hours.**
Basic Blueprint Reading is a continuation of the Carpenter’s Joint Apprenticeship Training program and is designed to introduce students to the basic skills needed to read construction blueprints. Class time will be used to discuss different types of construction drawings, details and specifications used in the construction industry. The course provides hands-on opportunities for students to use basic residential and light commercial blueprints to layout exterior and interior wall plating.

**SKT 114. Carpenter Joint Apprenticeship Program: Workplace Learning II. 4 Credit Hours.**
Carpenter Joint Apprenticeship Program: Workplace Learning II is the component of "on-the-job training" experience of the First Year Carpenter Joint Apprenticeship Training Program. Students in this course will gain important workplace learning experience based on concepts learned in the first-year curriculum.

Prerequisites: SKT 108 with a minimum grade of "C"

**SKT 115. Carpenter Joint Apprenticeship Program: Health and Safety I. 3 Credit Hours.**
Carpenter Joint Apprenticeship Program: Health and Safety I is a continuation of the Carpenter’s Joint Apprenticeship Training Program and will introduce students to basic health and safety practices on the worksite. Particular focus in this course will be on crane signals, aerial lifts, STI Scaffolds and fall protection. Upon completion of this course students will be eligible to attempt the Crane Signal Person Qualification Exam, Aerial Lift Operator Qualification Exam, STI Scaffold User Qualification Exam, Fall Protection Residential Qualification Exam.

**SKT 116. Carpenter Joint Apprenticeship Program: Residential Framing. 4 Credit Hours.**
Carpenter Joint Apprenticeship Program: Residential Framing is a continuation of the Carpenter’s Joint Apprenticeship Training program and will provide students a hands-on opportunity to construct a residential structure on foundation walls. Students will layout and frame a subfloor system, construct and erect exterior walls, build interior walls, frame bay windows, layout and build stairs, and prepare the building for subcontractors. The course covers layout procedures, the use of construction math, cutting list development, material estimating, work performance and safe job-site operations. Upon completion of this course the student will have a better understanding of how to build a subfloor, wall framing, roof framing and stair building.

**SKT 117. Carpenter Joint Apprenticeship Program: Welding Basics. 3 Credit Hours.**
Carpenter Joint Apprenticeship Program: Welding Basics is designed to introduce students to basic hands on cutting and welding processes. The course will cover welding qualification, certification, American Welder Society (AWS) testing procedures and standards. The course will introduce students to current welding and cutting practices performed in the construction industry developing skills to safely use Arc Welding, oxy-acetylene and plasma cutting equipment.

**SKT 118. Carpenter Joint Apprenticeship Program: Millwright Basics. 3 Credit Hours.**
Carpenter Joint Apprenticeship Program: Millwright Basics is a continuation of the Carpenter’s Joint Apprenticeship Training program and is designed to provide an overview of the industrial job site for Millwrights in construction.

**SKT 119. Carpenter Joint Apprenticeship Program: Workplace Learning III. 4 Credit Hours.**
Carpenter Joint Apprenticeship Program: Workplace Learning III is the component on-the-job training experience of the First Year Carpenter Joint Apprenticeship Training Program. Students in this course will gain important workplace learning experience based on concepts learned in the first-year curriculum.

**SKT 120. Carpenter Joint Apprenticeship Program: Health and Safety II. 2 Credit Hours.**
Carpenter Joint Apprenticeship Program: Health and Safety II is a continuation of the Carpenter's Joint Apprenticeship Training Program and will introduce students to basic health and safety practices on the worksite. Particular focus in this course will address Occupation Safety and Health Administration (OSHA) safety regulations for scaffolding, scaffolding introduction, and the specific procedures for the scaffold erector-user.

**SKT 121. Carpenter Joint Apprenticeship Program: Health and Safety III. 2 Credit Hours.**
Carpenter Joint Apprenticeship Program: Health and Safety III is a continuation of the Carpenter's Joint Apprenticeship Training Program for students who are interested in gaining rigging and hoisting skills necessary on all construction sites.
Prerequisites: SKT 120 with a minimum grade of "C"

**SKT 122. Carpenter Joint Apprenticeship Training: Workplace Learning IV. 4 Credit Hours.**
Carpenter Joint Apprenticeship Training: Workplace Learning IV is "on-the-job training" experience for the Carpenter Joint Apprenticeship Training Program. Students in this course will gain important workplace learning experience based on concepts learned in the second-year curriculum.
Prerequisites: SKT 119 with a minimum grade of "C"

**SKT 123. Carpenter Joint Apprenticeship Training: Workplace Learning V. 4 Credit Hours.**
Carpenter Joint Apprenticeship Training: Workplace Learning V is "on-the-job training" experience for the Second Year Carpenter Joint Apprenticeship Training Program. Students in this course will gain important workplace learning experience based on concepts learned in the second-year curriculum.
Prerequisites: SKT 122 with a minimum grade of "C"

**SKT 130. Electrical Training Alliance: Direct Current Theory. 3 Credit Hours.**
Electrical Training Alliance: Direct Current Theory is a continuation of the First Year Core Curriculum of the Electrical Joint Apprenticeship and Training Committee. Students in this course will receive comprehensive training on the basics of electricity as it relates to direct current (DC) series circuits. Students will study Ohm's law and electrical circuits, current and voltage characteristics in DC series circuits. Students will be asked to create DC circuits through lab exercises by correctly applying National Electric Code (NEC) requirements.

**SKT 131. Electrical Training Alliance: Workplace Learning II. 7 Credit Hours.**
Electrical Training Alliance: Workplace Learning II is the "on-the-job training" experience of the First Year Electrical Training Alliance Curriculum. Students in this course will gain important workplace learning experience based on concepts learned in the first year curriculum. Student training in the following areas: wiring, circuits, switches, insulation, conductors, current and voltage.
Prerequisites: SKT 112 with a minimum grade of "C"

**SKT 132. Electrical Training Alliance: Workplace Learning III. 7 Credit Hours.**
Electrical Training Alliance: Workplace Learning III is "on-the-job training" experience for the Electrical Training Alliance Curriculum. Students in this course will gain important workplace learning experience based on concepts learned in the first year curriculum. Students will receive "on the job training" in the following areas: AC Systems; Control System Installation, blueprint reading.
Prerequisites: SKT 131 with a minimum grade of "C"

**SKT 133. Electrical Training Alliance: Workplace Learning IV. 7 Credit Hours.**
Electrical Training Alliance: Workplace Learning IV is "on-the-job training" experience for the Electrical Training Alliance Curriculum. Students in this course will gain important workplace learning experience based on concepts learned in the first year curriculum. Students will receive "on the job training" in the following areas: installing and terminating transformers, service and troubleshooting. Training also includes installing, splicing terminating wires and cables.
Prerequisites: SKT 132 with a minimum grade of "C"

**SKT 134. Electrical Training Alliance: Transformers. 2 Credit Hours.**
Electrical Training Alliance: Transformers is a continuation of the Electrical Training Alliance, Second Year Core Curriculum. Students in this course will be exposed to the fundamentals of transformers and the different types of transformers.

**SKT 135. Electrical Training Alliance: Electrical Blueprint Reading. 2 Credit Hours.**
Electrical Training Alliance: Electrical Blueprint Reading is a continuation of the Electrical Training Alliance, Second Year Core Curriculum. Students in this course will be exposed to various methods and processes for evaluating and implementing electrical blueprints on residential worksites. Students will be exposed to blueprint reading, math, electrical and mechanical symbols, and how to create architectural views.

**SKT 136. Electrical Training Alliance: Electrical Training Code and Practices I. 2 Credit Hours.**
Electrical Training Alliance: Electrical Training Code and Practices I is a continuation of the First Year Core Curriculum of the Electrical Joint Apprenticeship and Training Committee. Students will be introduced to the National Electric Code (NEC) and the basics for interpreting the language of the NEC in order to correctly apply its requirements. Students will learn proper installation requirements for devices and switches used in residential and industrial buildings.

**SKT 137. Electrical Training Alliance: Electrical Code and Practices II. 2 Credit Hours.**
Electrical Training Alliance: Electrical Code and Practices II is a continuation of the Electrical Training Alliance, Second Year Core Curriculum. Students in this course will be exposed to the principles involved in sizing building wire, calculate conductor ampacity, and demonstrate the National Electrical Code (NEC) requirements for cable assemblies.

**SKT 138. Electrical Training Alliance: AC Systems and Theory. 3 Credit Hours.**
Electrical Training Alliance: AC Systems and Theory is a continuation of the Electrical Training Alliance, Second Year Core Curriculum. Students in this course will be exposed to a complete overview of Direct Current (DC) Theory, the use of trigonometry and vector math in circuit analysis, the concepts of resistive, inductive, and capacitive effects as they interact in series, parallel and combination AC circuits, polyphase power, AC and DC power generation, filters, resonance, and power factor.

**SKT 139. Electrical Training Alliance: Network Technologies. 2 Credit Hours.**
Electrical Training Alliance: Network Technologies is a part of the Second Year Core Curriculum of the Electrical Joint Apprenticeship and Training Committee. Students will be introduced to the fundamentals of networking including network topologies, the OSI model, network protocols, wireless technologies, and basic wiring principles.

**SKT 140. Laborer Joint Apprenticeship Program: Cutting Torch. 2 Credit Hours.**
Cutting Torch is the introductory course in the Laborer's AGC Training Council Apprenticeship program. This course will focus on the safe and effective uses of cutting systems, with a particular focus on different types of oxygen/gas cutting techniques. Students will also learn safety procedures related to cutting including Occupational Health and Safety procedures.

**SKT 141. Laborer Joint Apprenticeship Program: Laborer Workplace Learning I. 6 Credit Hours.**
Laborer Workplace Learning I is the on-the-job training experience of the First Year Laborer's AGC Training Council Apprenticeship program. Students in this course will gain important workplace learning experience based on concepts learned in the first year curriculum.

**SKT 142. Laborer Joint Apprenticeship Program: Hoisting, Rigging, Signaling. 3 Credit Hours.**
Hoisting, Rigging, Signaling is a course in the First Year Laborer's AGC Training Council Apprenticeship program. This course will focus on the safe and effective uses of hoisting, rigging and signaling. Students will demonstrate the proper use of hand signals, calculated weights of loads, learn the proper use of knots and hitches, and the proper use of straps, slings and wire rope rigging.

**SKT 143. Laborer Joint Apprenticeship Program: Power Tools I. 3 Credit Hours.**
Laborer Joint Apprenticeship Program: Power Tools I is the introductory course for using these tools in the Laborer's AGC Training Council Apprenticeship program. This course will focus on the proper use of air and electrical tools.

**SKT 144. Laborer Joint Apprenticeship Program: Concrete Placement. 3 Credit Hours.**
Laborer Joint Apprenticeship Program: Concrete Placement will allow students to learn all facets of concrete placement including but not limited to personal protective equipment usage; properties of concrete mix; impacts of add-mixtures to concrete; proper tool usage; different forms of a concrete slab; proper mathematical calculations to concrete placement.

**SKT 145. Laborer Joint Apprenticeship Program: Concrete Formwork. 3 Credit Hours.**
Laborer Joint Apprenticeship Program: Concrete Formwork will allow students to know and understand all facets of concrete formwork including but not limited to: the proper equipment use for formwork, proper methods for leveling and plumbing a wall, proper mathematical concepts to find top wall grade for foundation walls, installation of curbs and gutters, identification of power tools, and proper use of measurements to estimate concrete quantities.

**SKT 146. Laborer Joint Apprenticeship Program: Laborer Workplace Learning II. 6 Credit Hours.**
Laborer Joint Apprenticeship Program: Laborer Workplace Learning II is the on-the-job training experience of the First Year Laborers AGC Training Curriculum. Students in this course will gain important workplace learning experience based on concepts learned in the first year curriculum.

**SKT 147. Laborer Joint Apprenticeship Program: Laborer Workplace Learning III. 6 Credit Hours.**
Laborer Joint Apprenticeship Program: Laborer Workplace Learning III is the on-the-job training experience of the Second Year Laborers AGC Training Curriculum. Students in this course will gain important workplace learning experience based on concepts learned in the first year curriculum.

**SKT 148. Laborer Joint Apprenticeship Program: Laborer Workplace Learning IV. 6 Credit Hours.**
Laborer Joint Apprenticeship Program: Laborer Workplace Learning IV is the on-the-job training experience of the Second Year Laborers AGC Training Curriculum. Students in this course will gain important workplace learning experience based on concepts learned in the first year curriculum.

**SKT 149. Laborer Joint Apprenticeship Program: Scaffold Building/Aerial Lift. 3 Credit Hours.**
Laborer Joint Apprenticeship Program: Scaffold Building/Aerial Lift will allow students to learn all facets of scaffold building/aerial lifts. Proper analysis, set up, and use of scaffolding will be covered.

**SKT 150. Insulator Joint Apprenticeship Program: Insulator Safety I - OSHA. 1 Credit Hour.**
Insulator Safety I will focus on nomenclature of OSHA standards, OSHA's 10 hour safety course and the SMART MARK certification.

**SKT 151. Insulator Joint Apprenticeship Program: Insulator Safety II. 2 Credit Hours.**
Insulator Joint Apprenticeship Program: Health and Safety II will introduce students to basic health and safety practices on the worksite. Particular focus in this course will address Occupation Safety and Health Administration (OSHA) safety regulations for scaffolding, scaffolding introduction, and the specific procedures for the scaffold erector-user.

**SKT 152. Insulator Joint Apprenticeship Program: Insulator Safety III. 1 Credit Hour.**
Insulator Joint Apprenticeship Program: Health and Safety III i will introduce students to basic health and safety practices on the worksite. Particular focus in this course will address the application of Firestop and Smoke Seal materials used in the insulator industry.

**SKT 153. Insulator Joint Apprenticeship Program: Fundamental Insulation I - Piping. 3 Credit Hours.**
Insulator Joint Apprenticeship Program: Fundamental Insulation I - Piping will focus on reducing heat transfer by applying proper insulation, finishes and covering to pipes, fittings and valves.

**SKT 154. Insulator Joint Apprenticeship Program: Fundamental Insulation II - Equipment. 3 Credit Hours.**
Insulator Joint Apprenticeship Program: Fundamental Insulation II - Equipment will focus on reducing heat transfer by applying proper insulation, finishes and covering to HVAC systems and Mechanical Equipment.
Prerequisites: SKT 153 with a minimum grade of "C"

**SKT 155. Insulator Joint Apprenticeship Program: Removable Insulation Design. 2 Credit Hours.**
Insulator Joint Apprenticeship Program: Removable Insulation Design introduces students to designing and installing removable and reusable insulation devices.

**SKT 156. Insulator Joint Apprenticeship Program: Advanced Metal Jacketing II - Equipment. 3 Credit Hours.**
Insulator Joint Apprenticeship Program: Advanced Metal Jacketing II - Equipment introduces students to layout, fabrication and installation techniques for protective metal finishes on equipment.

**SKT 157. Insulator Joint Apprenticeship Program: Blueprints, Codes and Specifications. 3 Credit Hours.**
Insulator Joint Apprenticeship Program: Blueprints, Codes and Specifications allows students to develop the skills necessary to interpret a set of plans, blueprints or drawings.

**SKT 158. Insulator Joint Apprenticeship Program: Advanced Metal Jacketing I - Piping. 3 Credit Hours.**
Insulator Joint Apprenticeship Program: Advanced Metal Jacketing I - Piping introduces students to layout, fabrication and installation techniques for protective metal finishes on piping.

**SKT 159. Insulator Joint Apprenticeship Program: Vapor Barriers. 1 Credit Hour.**
Insulator Joint Apprenticeship Program: Vapor Barriers will allow students to understand how condensation affects mechanical insulation and the application of various types and methods of vapor barrier to reduce water vapor transmission through insulation.

**SKT 160. Insulator Joint Apprenticeship Program: Workplace Learning I. 5 Credit Hours.**
Insulator Joint Apprenticeship Program: Workplace Learning I will allow students to have the apprentice experience on actual worksites, to understand and extend the learned concepts from the classroom and to continue education in the insulation industry through mentoring with journey persons.

**SKT 161. Floor Layers Joint Apprenticeship: Hardwood I–Adhesives, Measuring, Herringbone and Parquet Patterns. 2 Credit Hours.**
Floor Layers Joint Apprenticeship: Hardwood I – Adhesives, Measuring, Herringbone and Parquet Patterns is part of the Floor Layers Joint Apprenticeship Program Curriculum. This course is designed to instruct the apprentice on the proper procedures and techniques associated with the installation of hardwood pattern flooring.

**SKT 162. Floor Layers Joint Apprenticeship: Resilient I. 2 Credit Hours.**
Floor Layers Joint Apprenticeship: Resilient I is part of the Floor Layers Joint Apprenticeship Program Curriculum. This course is designed to provide students with the basic skills necessary to install vinyl composition tile (VCT) and standard wall base. Class time will be dedicated to discussion and presentations involving identification of different types of resilient flooring and their characteristics, floor preparation, safe use and maintenance of tools, and installation procedures.

**SKT 163. Insulator Joint Apprenticeship Program: Workplace Learning II. 5 Credit Hours.**
Insulator Joint Apprenticeship Program: Workplace Learning II will allow students to have the apprentice experience on actual work sites, understand and extend the learned concepts from the classroom and to continue education in the insulation industry through mentoring with journey persons.
Prerequisites: SKT 160 with a minimum grade of "C"

**SKT 164. Insulator Joint Apprenticeship Program: Workplace Learning III. 6 Credit Hours.**
Insulator Joint Apprenticeship Program: Workplace Learning III allows students to expand on the apprentice experience on actual work sites and to extend the learned concepts from the classroom. Students work side by side in the field with journeymen.
Prerequisites: SKT 163 with a minimum grade of "C"

**SKT 165. Floor Layers Joint Apprenticeship: Stretching and Sewing. 3 Credit Hours.**
Floor Layers Joint Apprenticeship: Stretching and Sewing is part of the Floor Layers Joint Apprenticeship Program Curriculum. This course is designed to introduce students to the basic skills required to estimate the amount of materials needed to supply a job, determine efficient layout of the materials to minimize waste and power stretch carpet in a small room to multiple room application. Students will demonstrate skills in specialized carpet installations including “waterfall” style hand sewn bull-nosed step upholstery, incorporation of designs into carpet rugs and hand binding of area rugs.

**SKT 166. Floor Layers Joint Apprenticeship: Apprenticeship Orientation. 2 Credit Hours.**
Floor Layers Joint Apprenticeship: Apprenticeship Orientation is part of the Floor Layers Joint Apprenticeship Program Curriculum. This class is designed as an orientation to the Floor Layers’ Joint Apprenticeship Program (FLJAP), the Carpenters’ Regional Council, as well as the role of the floor layer on construction sites. Students will receive an Occupational Safety and Health Administration (OSHA) 10-hour construction safety certification card. Basic safety and operation of hand and power tools as well as basic construction site safety will be covered.

**SKT 167. Floor Layers Joint Apprenticeship: Hardwood II. 3 Credit Hours.**
Floor Layers Joint Apprenticeship: Hardwood II provides instruction, class exercises, and assessment by testing participants in the removal of existing floor coverings and debris from the job site, and diagonal installation of a prefinished hardwood floor with a specified border surrounding this area. Layout procedures in accordance with industry standards and installation techniques and processes associated with the NWFA (National Wood Flooring Association) are taught.

**SKT 168. Floor Layers Joint Apprenticeship: Carpet I – Basic Installation and Seaming Methods. 2 Credit Hours.**
Floor Layers Joint Apprenticeship: Carpet I – Basic Installation and Seaming Methods is part of the Floor Layers Joint Apprenticeship Program Curriculum. This course is designed to introduce students to the materials and basic skills needed to install track strip, metal transitions, carpet cushion, and the carpet seam making processes for carpet constructions.

**SKT 169. Floor Layers Joint Apprenticeship: Ceramic Tile I – Wall Tile Layout and Application. 2 Credit Hours.**
Floor Layers Joint Apprenticeship: Ceramic Tile I – Wall Tile Layout and Application is part of the Floor Layers Joint Apprenticeship Program Curriculum. This course is designed to introduce students to basic wall tile and CBU vertical layout, installation techniques including vapor barriers, tile identification, adhesive identification, and safe hand tool and power tool use.

**SKT 170. Laborer Joint Apprenticeship Program: Power Tools II. 3 Credit Hours.**
Laborer Joint Apprenticeship Program: Power Tools II is the introductory course in the Laborer’s AGC Training Council Apprenticeship program. This course will focus on the continued proper use of gas-powered tools.

**SKT 174. Insulator Joint Apprenticeship Program: Workplace Learning IV. 6 Credit Hours.**
Insulator Joint Apprenticeship Program: Workplace Learning IV allows students to demonstrate the skills they have learned through the apprenticeship program. Students will work alongside journeymen on actual work sites in real projects.
Prerequisites: SKT 164 with a minimum grade of "C"

# Smart Start (STR)

## Course Descriptions

**STR 050. Smart Start: Student Success. 3 Credit Hours.**
This course is designed to enhance students' knowledge, behaviors, and skills needed for successful transition to college.
Prerequisites: RDG 016 and RDG 017 with minimum grades of "C", or placement scores into RDG 020 or RDG 030, or ENG 020 or ENG 030

**STR 100. Smart Start College Success. 1 Credit Hour.**
This course provides all students with opportunities to learn college success strategies in an active learning environment. Topics will be relevant to individual student needs and goals.
Prerequisites: Reading Proficiency

# Sociology (SOC)

## Course Descriptions

**SOC 101. Introduction to Sociology (MOTR SOCI 101). 3 Credit Hours.**
Introduction to Sociology is a general survey of the discipline of sociology. The course explores the reciprocal relationship between individuals and social institutions. Specifically, it examines how social forces both shape and are shaped by beliefs and behaviors regarding ourselves and others. (Credit is only allowed for either SOC 101 or SOC 102.)
Prerequisites: Reading Proficiency or concurrent enrollment in RDG 079

**SOC 126. The Spectrum of Drugs and Society. 3 Credit Hours.**
The Spectrum of Drugs and Society will focus on information on addictive substances, behavioral effects, and pharmacotherapy options for drugs of abuse. It will examine institutional and structural practices that reinforce addiction. It also examines societal views of addicts and implications thereof. Topics will also include the physiological processes and impacts of psychoactive drugs on the individual including risk factors related to addiction, acute and chronic health problems and communicable diseases. Prevention and harm reduction, including strategies for communities, will be explored. The economic and social impacts of addiction are covered as well as local community resources.
Prerequisites: Reading Proficiency

**SOC 201. Aspects of Aging. 3 Credit Hours.**
Aspects of Aging examines sociological forces that affect life quality in the later years. Social, psychological, and physiological aspects of aging will be considered, emphasizing influences in the socio-cultural context that enhance and impede continued growth of the person.
Prerequisites: SOC 101, PSY 200, or HMS 100 with a minimum grade of "C" and Reading Proficiency

**SOC 202. Social Problems (MOTR SOCI 201). 3 Credit Hours.**
Social Problems offers a sociological examination of select global social problems. Topics of examination may include poverty, delinquency, and crime, education, and population issues, racial inequality, healthcare, gender inequality, alcohol and drugs, and environmental degradation, among others. The course also emphasizes research methodologies used to examine these problems as well as theoretical perspectives which can be used to understand the problems and, in turn, to create social societal change.
Prerequisites: SOC 101 with a minimum grade of "C" and Reading Proficiency

**SOC 203. Introduction to Criminology (MOTR CRIM 205). 3 Credit Hours.**
Introduction to Criminology is a survey of classical and contemporary theories of crime, sources of crime, societal responses to crime, crime typology, and crime statistics. The relationship between crime and aspects of social structure and social institutions is examined.
Prerequisites: Reading Proficiency

**SOC 204. Introduction to Family Studies (MOTR SOCI 204). 3 Credit Hours.**
Introduction to Family Studies is a survey of historic and contemporary dynamics of the family as a social institution. The course examines the social, interpersonal, structural, institutional, and cultural aspects of families over time.
Prerequisites: Reading Proficiency

**SOC 211. Substance Use, Abuse, and Dependence. 3 Credit Hours.**
Substance Use, Abuse, and Dependence explores historical and sociological perspectives on the use, abuse, and dependence of psychoactive drugs. It presents an overview of the physiological processes and impacts on the person, including risk factors related to addiction. The course is designed to understand the interdisciplinary approach to treatment and prevention. Identifying the impact of substance abuse in current life situations and the effects of continued use and abuse is also explored.
Prerequisites: Reading Proficiency

**SOC 212. Race and Ethnicity (MOTR SOCI 202). 3 Credit Hours.**
Race and Ethnicity explores the social and historical processes that shape each concept, focusing on the consequences for students' everyday lives. Students investigate how each are embedded in societal systems of privilege and oppression. The course ultimately challenges common definitions of race and offers students the opportunity to understand their lives within the context of racial injustice, ethnic diversity, and socially created difference.
Prerequisites: SOC 101 with a minimum grade of "C" and Reading Proficiency

**SOC 216. Introduction to Gender Studies (MOTR SOCI 203). 3 Credit Hours.**
Introduction to Gender Studies is a survey of the interdisciplinary scientific study of gender in the United States and globally. The personal, social, structural, political, economic, cultural, and historical processes that shape and are shaped by gender and sex are explored. Contemporary social issues will be compared with historical perspectives.
Prerequisites: Reading Proficiency

# Spanish (SPA)

## Course Descriptions

**SPA 101. Elementary Spanish I (MOTR LANG 103). 4 Credit Hours.**
Elementary Spanish I is a beginning course that presents sentence structure and vocabulary needed to communicate in basic Spanish conversations. Students also learn about the culture of Spain and Latin America as they practice listening, speaking, reading, and writing in Spanish. This course is designed for non-native speakers, and native speakers are advised not to enroll. This course is not recommended for native speakers.
Prerequisites: Reading Proficiency

**SPA 102. Elementary Spanish II (MOTR LANG 104). 4 Credit Hours.**
Elementary Spanish II is a continuation of Elementary Spanish I. The course expands vocabulary and grammar, and encourages communication in Spanish using present and past tenses. Students learn about the culture of Spain and Latin America as they practice listening, reading, writing, and speaking in Spanish.
Prerequisites: SPA 101 with a minimum grade of "C" or 2 years of high school Spanish and Reading Proficiency

**SPA 201. Intermediate Spanish I. 4 Credit Hours.**
In this continuation of SPA 102, students review and build grammar and vocabulary to enhance comprehension and communication. A variety of literary and cultural selections are presented to reinforce the student's understanding of global/intercultural themes.
Prerequisites: SPA 102 with a minimum grade of "C" or 3 or more years of high school Spanish, and Reading Proficiency

**SPA 202. Intermediate Spanish II. 4 Credit Hours.**
Intermediate Spanish II is a continuation of SPA 201. A variety of literary and cultural selections are read and discussed in class in Spanish. Emphasis is on using advanced sentence structures to express points of view and ideas.
Prerequisites: SPA 201 with a minimum grade of "C" and Reading Proficiency

# Surgical Technology (ST)

## Course Descriptions

**ST 120. Principles of Surgical Technology. 3 Credit Hours.**
Principles of Surgical Technology is an introduction to the field of surgical technology. Concepts related to the professional healthcare environment, patient care, basic instrumentation and communication skills will be discussed.
Prerequisites: Current enrollment in the Surgical Technology Program or permission of the program director and Reading Proficiency
Corequisites: ST 122

**ST 122. Medical/Surgical Terminology. 3 Credit Hours.**
Medical/Surgical Terminology addresses the medical language used in the operating room environment. Emphasis is placed on medical terms related to general and surgical medicine including disease processes, diagnostics, surgical procedures, treatment modalities and abbreviations. The formation, definition and pronunciation of medical terms will be discussed.
Prerequisites: Current enrollment in the Surgical Technology Program or permissions of program director, and Reading Proficiency
Corequisites: ST 120

**ST 124. Clinical Foundations. 3 Credit Hours.**
Clinical Foundations is a laboratory course which provides an introduction to the practical aspects of case management responsibilities for the surgical technologist in the scrub role. Topics covered will include basic case set-ups, gowning and gloving, instrumentation, maintenance of sterile technique, and sequence of surgical procedural tasks. Additional lab hours required.
Prerequisites: ST 120, ST 122 with minimum grades of "C", BIO 207 with a minimum grade of "C" or permission of program director, and Reading Proficiency
Corequisites: ST 128

**ST 126. Surgical Equipment and Technological Concepts. 2 Credit Hours.**
Surgical Equipment and Technological Concepts provides the learner with technological information on the utilization and care of surgical equipment and instrumentation. Environmental disinfection and sterilization techniques will be addressed.
Prerequisites: Current enrollment in the Surgical Technology Program, ST 120, ST 122 and BIO 203 all with minimum grades of "C", and Reading Proficiency

**ST 128. Perioperative Case Management. 3 Credit Hours.**
Perioperative Case Management will cover preoperative, intraoperative and postoperative case management information for the surgical technologist. Sterile technique, procedural responsibilities, environmental controls and patient care issues will be addressed.
Prerequisites: ST 120 and ST 122, both with minimum grades of "C" and Reading Proficiency
Corequisites: ST 124, ST 126

**ST 215. Surgical Pharmacology. 2 Credit Hours.**
Surgical Pharmacology is designed to introduce the student to the use, preparation and handling of medications in the surgical environment. Related terminology, common dosages, and principles of anesthesia administration will be covered. (Credit is only allowed for either ST 215 or ST 104.)
Prerequisites: Current enrollment in the Surgical Technology Program, ST 120 with a minimum grade of "C", and Reading Proficiency

**ST 220. Procedures I. 3 Credit Hours.**
Procedures I introduces the principles of surgical intervention and patient care considerations in multiple specialty areas. Anatomy, pathophysiology, diagnostics, prognosis and complications of procedures will be addressed.
Prerequisites: ST 124, ST 126, ST 128, ST 215, BIO 208, all with minimum grades of "C" and Reading Proficiency
Corequisites: ST 224

**ST 224. Clinical Practice I. 6 Credit Hours.**
Clinical Practice I involves application of surgical technology principles in the laboratory and hospital setting. Laboratory practice will involve instruction of advanced techniques in preparation for clinical experience. Students will gain experience by performing learned clinical skills in a hospital surgical department. Additional hours required.
Prerequisites: Reading Proficiency
Corequisites: ST 220, ST 228

**ST 228. Clinical Seminar. 1 Credit Hour.**
Clinical Seminar will provide discussion of student issues encountered in clinical practice. Students will provide critical analysis of procedural experiences in clinical case presentations.
Prerequisites: Reading Proficiency
Corequisites: ST 224

**ST 230. Procedures II. 3 Credit Hours.**
Procedures, a continuation of Procedures I, covers principles of surgical intervention and patient care considerations in advanced surgical specialty areas. Anatomy, pathophysiology, diagnostics, prognosis and complications of surgical procedures will be addressed.
Prerequisites: ST 220, ST 224 with minimum grades of "C" and Reading Proficiency
Corequisites: ST 234, ST 238

**ST 234. Clinical Practice II. 6 Credit Hours.**
Clinical Practice II is a continuation of Clinical Practice I. Students will further develop and refine their clinical skills by performing duties in the surgical technologist role in the hospital setting. Additional hours required.
Prerequisites: ST 228 with a minimum grade of "C" and Reading Proficiency
Corequisites: ST 230

**ST 238. Professional Issues. 2 Credit Hours.**
Professional Issues will provide discussion on topics pertaining to professional skills benefitting the entry-level surgical technologist. Resume building, interview techniques, and career opportunities will be explored. Testing methodologies, strategies and simulated testing experiences for the Certified Surgical Technologist National Board Examination will be covered.
Prerequisites: ST 220 and ST 224 with minimum grades of "C" and Reading Proficiency

# Theatre (THT)

## Course Descriptions

**THT 101. Introduction to Theatre (MOTR THEA 100A). 3 Credit Hours.**
Introduction to Theatre is designed to enhance the enjoyment and appreciation of theatre. Students study theatre as a collaborative art form by examining the roles and functions of playwrights, actors, directors, and designers in both traditional and contemporary contexts.
Prerequisites: Reading Proficiency or concurrent enrollment in RDG 079

**THT 102. Stagecraft (MOTR PERF 104S). 3 Credit Hours.**
Stagecraft provides study in the technical areas of theatrical production, with focus on scenery construction and scene painting. Students will learn the processes and tools needed for proper construction and painting of a set.
Prerequisites: Reading Proficiency

**THT 104. Theatre Practicum. 1 Credit Hour.**
Practical application of acting (when cast) and production techniques. Assignments are made on an individual basis.
Prerequisites: Reading Proficiency

**THT 105. Theatre Practicum. 2 Credit Hours.**
Practical application of acting (when cast) and production techniques. Assignments are made on an individual basis.
Prerequisites: Reading Proficiency

**THT 106. Theatre Practicum. 3 Credit Hours.**
Practical application of acting (when cast) and production techniques. Assignments are made on an individual basis.
Prerequisites: Permission of instructor required and Reading Proficiency

**THT 108. Acting I (MOTR PERF 100). 3 Credit Hours.**
Acting I provides an introduction to the fundamentals of training for the beginning actor. Emphasis is placed on the development of the actor's instrument for the stage. Acting and improvisational exercises as well as script analysis will be employed toward scene work and monologue study.
Prerequisites: Reading Proficiency

**THT 109. Acting II. 3 Credit Hours.**
Continuation of THT 108. Performance of scenes from both classical and contemporary plays is required in class. Emphasis is on individual development in the use of principles and styles of acting.
Prerequisites: Reading Proficiency

**THT 115. Acting for the Camera. 3 Credit Hours.**
This course includes the following (1) exploration of the aesthetics and principles of acting for the camera; (2) analysis of diverse acting styles and outstanding performances in film and television; and (3) acting exercises for the camera. Some acting exercises will be videotaped and edited for analysis. (Same course as MCM 115).
Prerequisites: Reading Proficiency

**THT 201. Directing. 3 Credit Hours.**
This course focuses on the process of directing for the stage. Emphasis is placed on the role of the director as the interpretive artist, collaborator, and stager. Importance will be given to leadership skills and time management.
Prerequisites: THT 101 and THT 108 with minimum grades of "C" and Reading Proficiency

# Web (WEB)

## Course Descriptions

**WEB 101. Introduction to Web Development. 3 Credit Hours.**
Introduction to Web Development offers an in-depth exploration of web development and design, including HyperText Markup Language (HTML), Cascading Style Sheets (CSS), introductory JavaScript topics, graphics, and version control. Students learn to create visually appealing, functional, and accessible websites while adhering to current guidelines and standards. The course also includes hands-on exercises and projects to provide practical experience.
Prerequisites: Reading Proficiency

**WEB 105. Front End Development. 3 Credit Hours.**
Front End Development focuses on advanced Cascading Style Sheets (CSS) techniques, emphasizing responsive design, layout, and styling. Students master CSS Grid and Flexbox while creating sophisticated animations, transitions, and responsive web designs using media queries. This course covers CSS preprocessors like Syntactically Awesome Style Sheets (SASS), custom properties, and optimization techniques for improved performance. Students learn to enhance accessibility, utilize advanced typography, and integrate CSS frameworks like Bootstrap and Tailwind CSS.
Prerequisites: WEB 101 and CIT 141 with a minimum grade of "C" and Reading Proficiency

**WEB 160. Programming I with JavaScript. 4 Credit Hours.**
Programming I with JavaScript allows students to learn software development methodologies utilizing current software design and development tools and techniques using JavaScript. Topics include data structures, language control structures, procedures and functions, error handling, objects, and classes. Assignments are developed in JavaScript using a current integrated development environment (IDE) with a focus on the development of websites and web-based applications.
Prerequisites: WEB 101 and CIT 180 with minimum grades of "C" and Reading Proficiency

**WEB 201. Advanced Web Development. 3 Credit Hours.**
Advanced Web Development advances students' web development skills, focusing on performance optimization, security, and scalability. Topics include techniques for building and managing complex, large-scale applications using cutting-edge technologies. Students learn advanced state management, real-time communication, serverless architecture, and cloud deployment. Students gain hands-on experience with microservices, GraphQL, and progressive web app (PWA) development to create robust, high-performance web applications.
Prerequisites: WEB 101 and WEB 160 with minimum grades of "C," and Reading Proficiency

**WEB 242. Web Deployment Techniques. 4 Credit Hours.**
Web Deployment Techniques focuses on the practical aspects of deploying web applications, covering a range of deployment techniques and best practices. Students learn to deploy applications to various environments, automate deployment processes, and ensure scalability and reliability. Topics include continuous integration and continuous deployment (CI/CD), containerization with Docker, orchestration with Kubernetes, and cloud platform deployments.
Prerequisites: Concurrent or prior enrollment in WEB 201 with a minimum grade of "C" and Reading Proficiency

**WEB 260. Programming II with JavaScript. 4 Credit Hours.**
Programming II with JavaScript advances students' JavaScript skills by teaching modern features like let/const, arrow functions, and modules. Topics include handling asynchronous operations with callbacks, Promises, async/await, and creating modular code using classes and inheritance. Students learn to connect JavaScript applications to Structured Query Language (SQL) and Not only SQL (NoSQL) databases, manipulate complex data structures, and apply common algorithms. The course covers event delegation, Document Object Model (DOM) manipulation, building single-page applications (SPAs) with frameworks like React, reusable web components, client-side routing, and server-side development with Node.js.
Prerequisites: WEB 160 and CIT 125 with minimum grades of "C" and Reading Proficiency

# Welding (WEL)

## Course Descriptions

**WEL 100. Welding Theory. 2 Credit Hours.**
Welding Theory teaches the theory involved in welding. Students will learn the terminology, techniques, and equipment used for welding in areas such as oxy-acetylene, SMAW (shielded metal arc welding), GMAW (gas metal arc welding), FCAW (flux cored arc welding), GTAW (gas tungsten arc welding), and special processes. Industry codes and inspection are introduced.
Prerequisites: Reading Proficiency
Corequisites: WEL 150

**WEL 150. Welding I - Oxy-Acetylene Welding. 3 Credit Hours.**
Welding I - Oxy-Acetylene Welding teaches the basic lab skills for welding. Students develop hands-on skills in traditional flat and out-of-position welds which may include corner joints, tee joints, lap joints, and butt joints. Positioning of welds includes work in flat, horizontal, vertical, and overhead positions. Students are trained in shop and safety procedures. (Credit is only allowed for either WEL 150 or ME 101.)
Prerequisites: Reading Proficiency
Corequisites: WEL 100

**WEL 152. Welding II - Oxy-Acetylene Cutting, Brazing, and Soldering. 2 Credit Hours.**
Welding II - Oxy-Acetylene Cutting, Brazing, and Soldering teaches cutting and joining lab skills for welding. Students develop hands-on skills in cutting with Oxy-Acetylene, brazing, and soldering copper pipe. Students are trained in shop and safety procedures.
Prerequisites: WEL 150 with a minimum grade of "C" and Reading Proficiency

**WEL 154. Arc Welding I - Flat and Tee Joints. 3 Credit Hours.**
Arc Welding I - Flat and Tee Joints teaches the basic lab skills for SMAW (shield metallic arc welding). Students develop hands-on skills in traditional flat and tee joint operations. Students are trained in shop and safety procedures.
Prerequisites: WEL 152 with a minimum grade of "C" and Reading Proficiency

**WEL 156. Arc Welding II - Horizontal, Vertical, and Overhead. 6 Credit Hours.**
Arc Welding II - Horizontal, Vertical, and Overhead teaches the basic lab skills for SMAW (shielded metal arc welding). Students develop hands-on skills in flat V-butt joints, horizontal, vertical, and overhead welding techniques. Students are trained in shop and safety procedures.
Prerequisites: WEL 154 with a minimum grade of "C" and Reading Proficiency

**WEL 160. GMAW and FCAW Welding. 2 Credit Hours.**
GMAW and FCAW Welding teaches advanced lab skills for welding. Students develop hands-on skills in using GMAW (gas metal arc welding) and FCAW (flux cored arc welding). Students are trained in shop and safety procedures.
Prerequisites: WEL 156 with a minimum grade of "C" and Reading Proficiency

**WEL 162. GTAW Welding. 2 Credit Hours.**
GTAW Welding teaches advanced lab skills for welding. Students develop hands-on skills in using GTAW (gas tungsten arc welding) techniques. Students are trained in shop and safety procedures.
Prerequisites: WEL 152 with a minimum grade of "C" and Reading Proficiency

**WEL 163. Large Diameter Welding. 2 Credit Hours.**
Large Diameter Welding teaches the lab skills for using large diameter welding rods. Students develop hands-on skills in flat V-butt joints and all position welding techniques. Students are trained in shop and safety procedures.
Prerequisites: WEL 156 with a minimum grade of "C" and Reading Proficiency

# Course Equivalencies

## Repeated Courses

If identified as equivalent, a renumbered course may be treated as a repeat. The Equivalent Course Chart identifies new courses that are equivalent to current or deleted courses. These new courses may carry a different course number and, in some cases, a different subject code.

A course replacement is considered equivalent when it is either identical in content and renumbered to align with new degree requirements or when it is sufficiently similar in content and instructional function as determined by subject-matter experts within the discipline.

Equivalent renumbered courses will be treated as repeats under the College's repeated course policy. Credit will be awarded for only one completion, and only the highest grade will be calculated in the student's grade point average (GPA). These equivalencies will be applied consistently College-wide.

# Accounting (ACC)

| Current Course | Deleted Courses That Are Equivalent for Grade Repeat |
|---|---|
| ACC 110 | ACC 101 |
| ACC 114 | ACC 103 |
| ACC 212 | ACC 513 |
| ACC 213 | ACC 207 |

## Arabic (ARA)

| Current Course | Deleted Courses That Are Equivalent for Grade Repeat |
|---|---|
| ARA 101 | ARA 103 |
| ARA 102 | ARA 502 |

## Art (ART)

| Current Course | Deleted Courses That Are Equivalent for Grade Repeat |
|---|---|
| ART 113 | ART 212 |
| ART 114 | ART 222 |
| ART 115 | ART 225 |
| ART 116 | ART 219 |
| ART 131 | ART 122 |
| ART 133 | ART 123 |
| ART 134 | ART 124 |
| ART 135 | ART 296 |
| ART 138 | ART 237 |
| ART 140 | ART 107 & ART 108 |
| ART 151 | ART 229 |
| ART 154 | ART 255, AT 203, or AT 524 |
| ART 169 | ART 118 |
| ART 172 | ART 505 |
| ART 207 | ART 201 |
| ART 211 | ART 205 |
| ART 214 | ART 223 |
| ART 215 | ART 226 |
| ART 216 | ART 220 |
| ART 228 | ART 577 |
| ART 233 | ART 293 |
| ART 234 | ART 294 |
| ART 239 | ART 247 |
| ART 240 | ART 248 |
| ART 245 | ART 295 |
| ART 251 | ART 230 |
| ART 252 | ART 231 |
| ART 253 | ART 232 |
| ART 254 | ART 235 |
| ART 265 | ART 218 |
| ART 267 | ART 200 |
| ART 269 | ART 264 |
| ART 271 | ART 285 |
| ART 272 | ART 262 |

| | |
|---|---|
| ART 273 | ART 286 |
| ART 275 | ART 203 |

## ART (AT)

| Current Course | Deleted Courses That Are Equivalent for Grade Repeat |
|---|---|
| AT 121 | AT 571 |
| AT 135 | AT 142 |
| AT 151 | ART 119 |
| AT 152 | AT 200 |
| AT 175 | ART 289 |
| AT 177 | ART 537 |
| AT 204 | AT 596 |
| AT 205 | AT 560 |
| AT 208 | AT 587 |
| AT 210 | AT 553 |
| AT 215 | ART 504 |
| AT 221 | ART 598 |
| AT 225 | AT 504 |
| AT 227 | AT 117 |
| AT 229 | ART 502 |
| AT 233 | ART 279 |
| AT 234 | ART 276 |
| AT 235 | AT 546 |
| AT 242 | AT 202 |
| AT 276 | ART 206 |
| AT 279 | ART 117 prior to Fall 2001 |
| AT 280 | AT 503 |

## Automotive Technology (AUT)

| Current Course | Deleted Courses That Are Equivalent for Grade Repeat |
|---|---|
| AUT 101 | AUT 520 |
| AUT 103 | AUT 521 |
| AUT 105 | AUT 522 |
| AUT 107 | AUT 168 or AUT 523 |
| AUT 110 | AUT 156 |
| AUT 112 | AUT 169 |
| AUT 114 | AUT 151 |
| AUT 116 | AUT 150 & AUT 271 |
| AUT 200 | AUT 281 & AUT 291 |
| AUT 203 | AUT 258 |
| AUT 210 | AUT 273 |
| AUT 212 | AUT 272 |

## Baking and Pastry (BAP)

| Current Course | Deleted Courses That Are Equivalent for Grade Repeat |
|---|---|
| BAP 101 | HRM 515 |
| BAP 105 | HRM 516 or HRM 122 & HRM 127 |
| BAP 110 | HRM 517 or HRM 123 & HRM 126 |
| BAP 115 | HRM 518 or HRM 219 & HRM 220 |
| BAP 150 | HRM 122 or HRM 513 |
| BAP 201 | HRM 218 or HRM 520 |
| BAP 205 | HRM 512 |
| BAP 210 | HRM 215 or HRM 521 |

| | |
|---|---|
| BAP 215 | HRM 514 |
| BAP 220 | HRM 216 or HRM 522 |

## Behavioral Health Support (BHS)

| Current Course | Deleted Courses That Are Equivalent for Grade Repeat |
|---|---|
| BHS 200 | BHS 101 |
| BHS 205 | BHS 102 |
| BHS 210 | BHS 103 |
| BHS 215 | BHS 104 |
| BHS 220 | BHS 105 |
| BHS 230 | BHS 201 |
| BHS 250 | BHS 202 |
| BHS 260 | BHS 203 |
| BHS 270 | BHS 204 |

## Biology (BIO)

| Current Course | Deleted Courses That Are Equivalent for Grade Repeat |
|---|---|
| BIO 125 | DIT 115 |
| BIO 225 | BIO 559 |

## Biotechnology (BTX)

| Current Course | Deleted Courses That Are Equivalent for Grade Repeat |
|---|---|
| BTX 100 | BIO 100 |
| BTX 104 | BIO 104 |
| BTX 152 | BIO 152 |
| BTX 218 | BIO 218 |
| BTX 219 | BIO 219 |
| BTX 220 | BIO 220 |
| BTX 221 | BIO 221 |
| BTX 226 | BIO 226 |
| BTX 228 | BIO 228 |

## Child and Family Development (CFD)

| Current Course | Deleted Courses That Are Equivalent for Grade Repeat |
|---|---|
| CFD 101 | ECE 101 |
| CFD 102 | ECE 125 |
| CFD 103 | ECE 124 |
| CFD 104 | ECE 102 |
| CFD 106 | ECE 103 |
| CFD 107 | ECE 127 |
| CFD 108 | ECE 108 |
| CFD 109 | ECE 105 |
| CFD 111 | ECE 107 or CFD 206 |
| CFD 201 | ECE 200 |
| CFD 202 | ECE 201 |
| CFD 204 | ECE 104 |
| CFD 205 | ECE 206 |
| CFD 206 | ECE 107 or CFD 111 |
| CFD 207 | ECE 205 |
| CFD 209 | ECE 204 |

## Clinical Laboratory Technology (CLT)

| Current Course | Deleted Courses That Are Equivalent for Grade Repeat |
|---|---|
| CLT 110 | CLT 102 |
| CLT 111 | CLT 103 |
| CLT 113 | CLT 104 |
| CLT 115 | CLT 210 |
| CLT 120 | CLT 105 |
| CLT 211 | CLT 200 |
| CLT 213 | CLT 201 |
| CLT 215 | CLT 204 |
| CLT 217 | CLT 206 |
| CLT 219 | CLT 205 |

## Computer and Information Technology (CIT)

| Current Course | Deleted Courses That Are Equivalent for Grade Repeat |
|---|---|
| CIT 112 | IS 112 |
| CIT 116 | IS 116 |
| CIT 125 | IS 225 |
| CIT 130 | IS 130 |
| CIT 141 | IS 141 |
| CIT 151 | IS 151 |
| CIT 153 | IS 153 |
| CIT 164 | IS 229 |
| CIT 165 | IS 165 |
| CIT 166 | IS 166 |
| CIT 167 | IS 167 |
| CIT 180 | IS 280 |
| CIT 187 | IS 187 |
| CIT 237 | IS 237 |
| CIT 241 | IS 241 |
| CIT 253 | IS 253 |
| CIT 257 | IS 257 |
| CIT 264 | IS 264 |
| CIT 267 | IS 267 |
| CIT 285 | IS 285 |
| CIT 287 | IS 287 |
| CIT 290 | IS 290 |
| CIT 291 | IS 291 |
| CIT 296 | IS 296 |

## Criminal Justice (CRJ)

| Current Course | Deleted Courses That Are Equivalent for Grade Repeat |
|---|---|
| CRJ 129 | CRJ 207 |

## Culinary Arts (CUL)

| Current Course | Deleted Courses That Are Equivalent for Grade Repeat |
|---|---|
| CUL 101 | HRM 116 |
| CUL 110 & CUL 115 | HRM 110 |
| CUL 110 | HRM 140 |
| CUL 115 | HRM 145 |
| CUL 201 | HRM 119 |
| CUL 205 | HRM 129 |
| CUL 210 | HRM 225 |

| | |
|---|---|
| CUL 215 | HRM 230 |
| CUL 250 | HRM 200 or HRM 260 |

## Deaf Communication Studies (DCS)

| Current Course | Deleted Courses That Are Equivalent for Grade Repeat |
|---|---|
| DCS 118 | DCS 514 |
| DCS 219 | DCS 208 |

## Dental Hygiene (DHY)

| Current Course | Deleted Courses That Are Equivalent for Grade Repeat |
|---|---|
| DHY 150 | DHS 120 |
| DHY 152 | DHS 121 |
| DHY 154 | DHY 125 |
| DHY 155 & DHY 156 | DHY 126 & DHY 226 |
| DHY 157 | DHY 127 |
| DHY 158 | DHY 128 |
| DHY 159 | DHY 129 |
| DHY 160 | DHY 130 |
| DHY 162 | DHY 131 & DHY 132 |
| DHY 164 | DHY 225 |
| DHY 167 | DHY 137 |
| DHY 168 | DHY 138 |
| DHY 172 | DHY 142 |
| DHY 250 | DHY 220 |
| DHY 251 | DHY 221 |
| DHY 252 | DHY 222 |
| DHY 258 | DHY 228 |
| DHY 259 | DHY 136 |
| DHY 260 | DHY 230 |
| DHY 262 | DHY 232 |
| DHY 263 | DHY 223 |
| DHY 273 | DHY 215 |
| DHY 290 | DHY 504 |

## Diagnostic Medical Sonography (DMS)

| Current Course | Deleted Courses That Are Equivalent for Grade Repeat |
|---|---|
| DMS 103 & DMS 104 | ULT 104 |
| DMS 105 & DMS 106 | ULT 101 |
| DMS 107 | ULT 102 |
| DMS 108 | ULT 201 |
| DMS 110 | ULT 209 |
| DMS 111 | ULT 202 |
| DMS 120 | DMS 128 |
| DMS 127 | DMS 101 & DMS 102 |
| DMS 128 | DMS 120 |
| DMS 202 | ULT 210 |
| DMS 203 | ULT 207 |

## Diesel Technology (DIE)

| Current Course | Deleted Courses That Are Equivalent for Grade Repeat |
|---|---|
| DIE 100 | DIE 104 |
| DIE 101 | AUT 505 |
| DIE 103 | AUT 506 |

## Education (EDU)

| Current Course | Deleted Courses That Are Equivalent for Grade Repeat |
|---|---|
| EDU 210 | EDU 200 or EDU 220 |
| EDU 218 | EDU 102 |
| EDU 219 | EDU 215 |
| EDU 227 | EDU 217 |

## Engineering Graphics (EGR)

| Current Course | Deleted Courses That Are Equivalent for Grade Repeat |
|---|---|
| EGR 230 | ARC 124 |

## Engineering Science (ESC)

| Current Course | Deleted Courses That Are Equivalent for Grade Repeat |
|---|---|
| ESC 101 | GE 176 |
| ESC 200 | EE 275 |
| ESC 203 | ME 275 |
| ESC 204 | ME 277 |
| ESC 205 | ME 278 |
| ESC 206 | ME 279 |
| ESC 207 | ME 280 |

## English (ENG)

| Current Course | Deleted Courses That Are Equivalent for Grade Repeat |
|---|---|
| ENG 101 | ENG 104 |
| ENG 102 | ENG 105 |
| ENG 233 | ENG 589 |
| ENG 234 | ENG 591 & ENG 592 |

## English Multilingual Learner (EML)

| Current Course | Deleted Courses That Are Equivalent for Grade Repeat |
|---|---|
| EML 050 | ENG 062 |
| EML 051 | ENG 051 |
| EML 052 | ENG 050 |
| EML 060 | ENG 053 |
| EML 061 | ENG 061 |
| EML 062 | ENG 060 |
| EML 071 | ENG 071 |
| EML 072 | ENG 070 |

## Funeral Service Education (FSE)

| Current Course | Deleted Courses That Are Equivalent for Grade Repeat |
|---|---|
| FSE 209 | FSE 207 |

## Health Information Management (HIM)

| Current Course | Deleted Courses That Are Equivalent for Grade Repeat |
|---|---|
| HIM 101 | HIT 101 |
| HIM 102 | HIT 211 |
| HIM 103 | HIT 105 |

| | |
|---|---|
| HIM 104 | HIT 102 |
| HIM 106 | HIT 106 |
| HIM 107 | HIT 107 |
| HIM 201 | HIT 201 |
| HIM 204 | HIT 213 |
| HIM 205 | HIT 214 |
| HIM 208 | HIT 208 |
| HIM 210 | HIT 210 |

## Health and Wellness (HW)

| Current Course | Deleted Courses That Are Equivalent for Grade Repeat |
|---|---|
| HW 101 | PED 201 |
| HW 102 | PE 135 |
| HW 103 | PE 161 or PE 276 |
| HW 104 | PE 180 |
| HW 109 | PE 129 |
| HW 111 | PE 220 |
| HW 112 | PE 104 |
| HW 113 | PE 106 |
| HW 115 | PE 109 |
| HW 124 | PE 120 |
| HW 129 | PE 126 |
| HW 130 | PE 127 |
| HW 131 | PE 130 |
| HW 132 | PE 131 |
| HW 144 | PE 162 |
| HW 145 | PE 163 |
| HW 150 | PE 132 |
| HW 153 | PE 173 |
| HW 155 | PE 177 |
| HW 156 | PE 178 |
| HW 157 | PE 181 |
| HW 158 | PE 182 |

## History (HST)

| Current Course | Deleted Courses That Are Equivalent for Grade Repeat |
|---|---|
| HST 101 | HST 103 |
| HST 102 | HST 104 |

## Hospitality and Tourism (HTM)

| Current Course | Deleted Courses That Are Equivalent for Grade Repeat |
|---|---|
| HTM 100 | HRM 134 |
| HTM 115 | HRM 210 |
| HTM 120 | HRM 201 |
| HTM 200 | HRM 112 |
| HTM 205 | HRM 202 |
| HTM 210 | HRM 205 |
| HTM 215 | HRM 209 |
| HTM 225 | HRM 213 |
| HTM 230 | HRM 212 |
| HTM 240 | HRM 141 & HRM 221 |
| HTM 245 | HRM 261 |

## Information Systems (IS)

| Current Course | Deleted Courses That Are Equivalent for Grade Repeat |
|---|---|
| IS 102 | AOS 101 |
| IS 165 | IS 503 |
| IS 166 | IS 153 & IS 187 |
| IS 167 | IS 256 |
| IS 264 | IS 501 |
| IS 267 | IS 275 |

## Information Technology (IT)

| Current Course | Deleted Courses That Are Equivalent for Grade Repeat |
|---|---|
| IT 101 | IT 501 or IT 589 |
| IT 201 | IT 502 |
| IT 202 | IT 503 |
| IT 208 | IT 528 |
| IT 221 | IT 521 |

## Japanese (JPN)

| Current Course | Deleted Courses That Are Equivalent for Grade Repeat |
|---|---|
| JPN 101 | JPN 103 |
| JPN 102 | JPN 104 |

## Legal Studies (LGL)

| Current Course | Deleted Courses That Are Equivalent for Grade Repeat |
|---|---|
| LGL 110 | LGL 108 |
| LGL 113 | LGL 106 |
| LGL 228 | LGL 208 |
| LGL 230 | LGL 213 |
| LGL 235 | LGL 104 |
| LGL 240 | LGL 216 |
| LGL 290 | LGL 280 or LGL 219 |

## Mathematics (MTH)

| Current Course | Deleted Courses That Are Equivalent for Grade Repeat |
|---|---|
| MTH 020 | MTH 001 |
| MTH 110 | MTH 180 |
| MTH 110S | MTH 180S |
| MTH 120 | MTH 161 |
| MTH 120S | MTH 161 |
| MTH 140 | MTH 140S |
| MTH 140S | MTH 140 |
| MTH 160 | MTH 160A, MTH 160B, MTH 160C, or MTH 160S |
| MTH 160S | MTH 160, MTH 160A, MTH 160B, or MTH 160C |
| MTH 161 | MTH 161S |
| MTH 161S | MTH 161 |
| MTH 180 | MTH 180S |
| MTH 180S | MTH 180 |

## Mechanical Engineering (ME)

| Current Course | Deleted Courses That Are Equivalent for Grade Repeat |
|---|---|
| ME 101 | WEL 150 |
| ME 230 | ME 535 |

## Nursing (NUR)

| Current Course | Deleted Courses That Are Equivalent for Grade Repeat |
|---|---|
| NUR 151 | NUR 101 |
| NUR 152 | NUR 102 |
| NUR 153 | NUR 108 |
| NUR 154 | NUR 105 |
| NUR 160 | NUR 106 or NUR 170 |
| NUR 161 | NUR 119 |
| NUR 170 | NUR 160 |
| NUR 180 | NUR 517 |
| NUR 251 | NUR 201 |
| NUR 252 | NUR 205 |
| NUR 253 | NUR 204 |

## Occupational Therapy Assistant (OTA)

| Current Course | Deleted Courses That Are Equivalent for Grade Repeat |
|---|---|
| OTA 215 | OTA 212 |

## Paramedic Technology (PAR)

| Current Course | Deleted Courses That Are Equivalent for Grade Repeat |
|---|---|
| PAR 235 | PAR 211 |

## Physical Therapist Assistant (PTA)

| Current Course | Deleted Courses That Are Equivalent for Grade Repeat |
|---|---|
| PTA 110 | BIO 209 or PTA 222 |
| PTA 130 | PTA 214 |
| PTA 140 | PTA 105 |
| PTA 150 | PTA 215 |
| PTA 200 | PTA 104 |
| PTA 206 | PTA 211 |
| PTA 220 | PTA 212 |
| PTA 230 | PTA 213 |
| PTA 240 | PTA 208 |
| PTA 250 | PTA 216 |
| PTA 260 | PTA 217 or PTA 203 |

## Psychology (PSY)

| Current Course | Deleted Courses That Are Equivalent for Grade Repeat |
|---|---|
| PSY 200 | PSY 201 |

## Respiratory Care (RC)

| Current Course | Deleted Courses That Are Equivalent for Grade Repeat |
|---|---|
| RC 110 | RTH 222 |
| RC 120 | RTH 120 |
| RC 130 | RTH 121 |
| RC 140 | RTH 127 |
| RC 150 | RTH 125 & RTH 128 |
| RC 160 | RTH 126 |
| RC 170 | RTH 140 |
| RC 180 | RTH 220 |
| RC 190 | RTH 146 |
| RC 200 | RTH 221 |
| RC 210 | RTH 223 |

| | |
|---|---|
| RC 220 | RTH 131 |
| RC 230 | RTH 240 |
| RC 240 | RTH 225 |
| RC 250 | RTH 228 |
| RC 260 | RTH 245 |

## Skilled Trades (SKT)

| Current Course | Deleted Courses That Are Equivalent for Grade Repeat |
|---|---|
| SKT 102 | SKT 504 |
| SKT 103 | SKT 505 |

## Smart Start (STR)

| Current Course | Deleted Courses That Are Equivalent for Grade Repeat |
|---|---|
| STR 050 | COL 020 |

## Sociology (SOC)

| Current Course | Deleted Courses That Are Equivalent for Grade Repeat |
|---|---|
| SOC 101 | SOC 102 |
| SOC 216 | WMS 100 |

## Surgical Technology (ST)

| Current Course | Deleted Courses That Are Equivalent for Grade Repeat |
|---|---|
| ST 215 | ST 104 |

## Web (WEB)

| Current Course | Deleted Courses That Are Equivalent for Grade Repeat |
|---|---|
| WEB 101 | IS 139 & IS 168 |
| WEB 160 | IS 265 |
| WEB 242 | IS 142 |

## Welding (WEL)

| Current Course | Deleted Courses That Are Equivalent for Grade Repeat |
|---|---|
| WEL 150 | ME 101 |

# INDEX

## A

About St. Louis Community College ..... 6
Accelerated IT Academy - Programming and Coding, Certificate of Specialization ..... 59
Accounting (ACC) ..... 427
Accounting, Associate in Applied Science ..... 62
Accounting, Certificate of Proficiency ..... 67
Accreditation and Program Approvals ..... 8
Addictions Study, Certificate of Specialization ..... 69
Admission ..... 10
Anthropology (ANT) ..... 428
Arabic (ARA) ..... 429
Art (ART) ..... 429
Art (AT) ..... 434
Associate of Arts in Teaching ..... 72
Automotive Service, Certificate of Specialization ..... 79
Automotive Technology, Associate in Applied Science ..... 82
Automotive Technology (AUT) ..... 436
Automotive Technology, Certificate of Proficiency ..... 85
Automotive Vehicle Inspection and Light Maintenance, Certificate of Specialization ..... 88

## B

Baking and Pastry Arts, Associate in Applied Science ..... 90
Baking and Pastry (BAP) ..... 438
Behavioral Health Support, Associate in Applied Science ..... 94
Behavioral Health Support (BHS) ..... 439
Biology (BIO) ..... 440
Biomedical Electronics Technology, Certificate of Proficiency ..... 99
Biomedical Engineering Tech (BE) ..... 443
Biotechnology, Associate in Applied Science ..... 101
Biotechnology (BTX) ..... 443
Biotechnology, Certificate of Proficiency ..... 108
Building Inspection Technology (BIC) ..... 444
Business Administration, Associate in Arts ..... 111
Business Administration (BUS) ..... 444
Business Law (BLW) ..... 445

## C

Cannabis and Hemp Production, Certificate of Specialization ..... 121
Certified Medical Assisting (CMA) ..... 445
Chancellor's Welcome ..... 4
Chemistry (CHM) ..... 445
Child and Family Development, Associate in Applied Science ..... 123
Child and Family Development (CFD) ..... 446
Chinese (CHI) ..... 448
Cisco Networking Academy: CCNA, Certificate of Specialization ..... 135
Civil Engineering Technology (CE) ..... 449
Clinical Coding Associate, Certificate of Specialization ..... 139
Clinical Coding, Certificate of Proficiency ..... 136
Clinical Laboratory Technology (CLT) ..... 449
Clinical Laboratory Technology (Medical Laboratory Technician), Associate in Applied Science ..... 141
College Studies (COL) ..... 450
Communications (COM) ..... 451
CompTIA A+ and Security+ Certifications, Certificate of Specialization ..... 146
CompTIA A+ Certification, Certificate of Specialization ..... 144
Computed Tomography, Certificate of Specialization ..... 147
Computed Tomography (CT) ..... 451
Computer Accounting Technology, Certificate of Specialization ..... 149
Computer Aided Design (CAD), Certificate of Specialization ..... 151
Computer Information Technology (CIT) ..... 452
Course Descriptions ..... 424
Course Equivalencies ..... 529
Criminal Justice, Associate in Applied Science ..... 153
Criminal Justice, Certificate of Proficiency ..... 156
Criminal Justice (CRJ) ..... 455
Culinary Arts, Associate in Applied Science ..... 158
Culinary Arts (CUL) ..... 456
Cybersecurity, Associate in Applied Science ..... 163
Cybersecurity, Certificate of Proficiency ..... 169

## D

Database Developer, Certificate of Proficiency ..... 173
Deaf Communication Studies (DCS) ..... 458
Deaf Communication Studies: American Sign Language, Certificate of Specialization ..... 177
Deaf Communication Studies: Interpreter Education, Associate in Applied Science ..... 179
Dental Hygiene, Associate in Applied Science ..... 182
Dental Hygiene (DHY) ..... 460
Diagnostic Medical Sonography, Certificate of Proficiency ..... 188
Diagnostic Medical Sonography (DMS) ..... 463
Diesel Technology, Associate in Applied Science ..... 196
Diesel Technology, Certificate of Proficiency ..... 201
Diesel Technology, Certificate of Specialization ..... 205

Diesel Technology (DIE) ..... 467

## E

Economics (ECO) ..... 468
Education (EDU) ..... 468
Electrical/Electronic Egr Tech (EE) ..... 469
Emergency Medical Technology (EMT) ..... 470
Engineering Graphics (EGR) ..... 470
Engineering Science (ESC) ..... 471
Engineering Technology, Associate in Applied Science ..... 207
English (ENG) ..... 471
English Multilingual Learners (EML) ..... 473
Enrollment and Attendance Policies ..... 27

## F

Fees and Refunds ..... 13
Finance (FIN) ..... 474
Financial Aid ..... 16
Focus Area: Accounting ..... 115
Focus Area: Biology ..... 227
Focus Area: Business ..... 118
Focus Area: Communication ..... 47
Focus Area: Computer Science ..... 230
Focus Area: Criminal Justice ..... 51
Focus Area: Engineering ..... 234
Focus Area: Mathematics ..... 238
Focus Area: Psychology ..... 54
Focus Area: Social Work ..... 57
French (FRE) ..... 474
Funeral Service Education, Associate in Applied Science ..... 214
Funeral Service Education (FSE) ..... 475

## G

Game and Interactive Design (GID) ..... 476
General Education Requirements ..... 416
General Engineering (GE) ..... 476
General Fine Arts, Associate in Fine Arts ..... 218
General Information ..... 5
General STEM Transfer Studies, Associate in Science ..... 225
General Transfer Studies, Associate in Arts ..... 44
Geography (GEG) ..... 476
Geology (GEO) ..... 477
Geospatial Technology (GST) ..... 477
German (GER) ..... 478
Global Education (GLE) ..... 478
Graphic Communications, Associate in Applied Science ..... 241
Graphic Communications, Associate in Fine Arts ..... 251

## H

Health and Safety Policies ..... 25
Health and Wellness (HW) ..... 479
Health Information Management, Associate in Applied Science ..... 256
Health Information Management (HIM) ..... 481
Health Sciences, Associate in Science ..... 259
Health Sciences (HS) ..... 483
History (HST) ..... 483
Horticulture, Associate in Applied Science ..... 266
Horticulture, Certificate of Proficiency ..... 270
Horticulture (HRT) ..... 484
Hospitality and Tourism (HTM) ..... 486
Hospitality Management, Associate in Applied Science ..... 273
Human Services, Associate in Applied Science ..... 279
Human Services (HMS) ..... 488
Humanities (HUM) ..... 489
HVAC Technician, Certificate of Specialization ..... 284

## I

Information Systems (IS) ..... 489
Information Technology (IT) ..... 492
Interdisciplinary Studies (IDS) ..... 494
Interior Design, Associate in Applied Science ..... 288
International Business (IB) ..... 494
IT Help Desk/End User Support, Certificate of Specialization ..... 285

## J

Japanese (JPN) ..... 495

## L

Legal Studies for the Paralegal, Associate in Applied Science ..... 293
Legal Studies for the Paralegal, Certificate of Proficiency ..... 299
Legal Studies (LGL) ..... 495
Library & Information Studies (LIB) ..... 496
Licensed Practical Nursing (LPN) ..... 496

## M

Magnetic Resonance Imaging, Certificate of Proficiency ..... 302
Magnetic Resonance Imaging (MRI) ..... 497
Management (MGT) ..... 499
Marketing (MKT) ..... 499
Mass Communications (MCM) ..... 499
Mathematics (MTH) ..... 500

Mechanical Engineering Tech (ME) ..... 503
Medical Assisting, Certificate of Specialization ..... 305
Missouri Civics Examination (MCE) ..... 504
Music (MUS) ..... 504

## N

Network Security Engineering, Associate in Applied Science ..... 307
Network Security Engineering, Certificate of Proficiency ..... 313
Nursing, Associate in Applied Science ..... 318
Nursing (NUR) ..... 507

## O

Occupational Therapy Assistant, Associate in Applied Science ..... 323
Occupational Therapy Assistant (OTA) ..... 508

## P

Paramedic Technology, Associate in Applied Science ..... 329
Paramedic Technology, Certificate of Proficiency ..... 335
Paramedic Technology (PAR) ..... 510
Personal Development (PRD) ..... 511
Philosophy (PHL) ..... 511
Photography, Associate in Fine Arts ..... 340
Physical Science (PSI) ..... 512
Physical Therapist Assistant, Associate in Applied Science ..... 348
Physical Therapist Assistant (PTA) ..... 512
Physics (PHY) ..... 513
Political Science (PSC) ..... 514
Practical Nursing, Certificate of Proficiency ..... 353
Precision Machining Technology, Certificate of Specialization ..... 356
Program Information Policies ..... 30
Psychology (PSY) ..... 514

## R

Radiologic Technology, Associate in Applied Science ..... 358
Radiologic Technology (XRT) ..... 515
Reading (RDG) ..... 517
Remote Aircraft Pilot, Certificate of Specialization ..... 366
Respiratory Care, Associate in Applied Science ..... 368
Respiratory Care, Bachelor of Science ..... 373
Respiratory Care (RC) ..... 517

## S

Signed Articulation Agreements ..... 18
Skilled Trades Industrial Occupations Technology, Associate in Applied Science ..... 379
Skilled Trades Industrial Occupations Technology, Certificate of Specialization ..... 386
Skilled Trades (SKT) ..... 520
Smart Start (STR) ..... 525
Sociology (SOC) ..... 525
Software Developer, Associate in Applied Science ..... 387
Spanish (SPA) ..... 526
STLCC Academic Calendar ..... 22
STLCC Foundation ..... 24
STLCC Policies & Guidelines ..... 25
Student Records Policies ..... 34
Student Success Resources ..... 37
Surgical Technology, Associate in Applied Science ..... 405
Surgical Technology (ST) ..... 526

## T

Theatre (THT) ..... 527

## W

Web Developer, Certificate of Specialization ..... 409
Web (WEB) ..... 528
Welding Technology, Certificate of Proficiency ..... 412
Welding Technology, Certificate of Specialization ..... 414
Welding (WEL) ..... 529
Workforce and Community Programs ..... 43