

ELECTRICAL/ELECTRONIC ENGINEERING TECHNOLOGY, ASSOCIATE IN APPLIED SCIENCE

Florissant Valley

This program prepares students to function as technical assistants to scientists and engineers. Through classroom work and practical experience in technology laboratories, students learn to prepare and interpret drawings and diagrams, perform testing procedures and compile technical data.

Persons interested in the program should be mechanically inclined and be able to follow instructions. Prior course work in math and its application with science is beneficial.

Graduates are qualified for electrical/electronic engineering technician positions in industry and research.

This program is accredited by the

Engineering Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET)
415 N. Charles Street
Baltimore, Md. 21202
telephone 410-347-7700
ABET.org (<http://www.ABET.org>)

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/> (https://www.google.com/url?q=https://scorecard.mo.gov/scorecard/&sa=D&ust=1555536894857000&usq=AFQjCNG1xf3E_i2lO96zEytILO-s5xaJCQ). 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, most recent cohorts for wage and completion data are six years prior to the current academic year. 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. troubleshoot problems of electrical, electronics, and biomedical systems.
2. read wiring documents such as schematics, block diagrams, and wiring diagrams.
3. assemble electronic circuits from schematic diagrams.
4. apply mathematics in the solution and troubleshooting of electrical, electronic, and digital circuits.

5. identify the thermal and mechanical effects in defining form, fit, and function in electrical/electronic prototyping.
6. use equipment properly while meeting safety and environmental concerns in the workplace.
7. exhibit effective interpersonal and team 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 our website: <https://stlcc.edu/programs-academics/missouri-civics-exam.aspx>.

Program of Study

Code	Title	Credit Hours
Career General Education		
ENG 101	College Composition I (MOTR ENGL 100)	3
Select one of the following:		3
ENG 102	College Composition II (MOTR ENGL 200)	
ENG 103	Report Writing (MOTR ENGL 110)	
COM 101	Oral Communication I (MOTR COMM 100)	
XXX xxx	Social & Behavioral Sciences: Civics Requirement	3
XXX xxx	Social Science Requirement	3
Physical Education Activity		
Select 2 credit hours		2
Math Requirement		
Select one of the following:		5-6
MTH 185	Precalculus (MOTR MATH 150)	
MTH 160 & MTH 170	Precalculus Algebra (MOTR MATH 130) and Precalculus Trigonometry	
Science Requirement		
Select one of the following:		4-5
PHY 111	College Physics I (MOTR PHYS 150L)	
CHM 101	Fundamentals of Chemistry I (MOTR CHEM 100L)	
BIO 111	Introductory Biology I (MOTR BIOL 100L)	
BIO 207	Anatomy and Physiology I (MOTR LIFS 150LAP)	
Program Requirements		
GE 131	Engineering Technology Orientation	1
GE 101	Technical Computer Applications	3
EGR 104	Electronic Drafting	2
EE 106		1
EE 130	Electric Circuits I	4
EE 131	Electric Circuits II	4
EE 132	Electronic Devices	5
EE 233	Digital Logic	4
Electives		
Select 17 or more credit hours of the following:		17
GE 133		
EE 242	Introduction to Microprocessors	
EE 236	PLC/Programmable Logic Controller	
BE 254	Biomedical Applications	
EE 260		
GE 240	Product Design and Fabrication	
EE 204		

EE 235	Electronic Communications
ME 210	Robotics Subsystems and Components
ME 254	Electricity and Controls
BE 153	Workplace Learning: Biomedical Electronics Technology
GE 290	Workplace Learning: General Engineering

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PLEASE NOTE: If you originally enrolled at STLCC prior to Fall 2021, you may need to view an archived catalog (<https://www.stlcc.edu/programs-academics/course-catalog/>) for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

Workplace Experience

Students may substitute up to six credit hours of appropriate and relevant workplace learning experience for technical courses, and/or electives, included in the program. In order for the workplace learning credit to be counted for the degree requirement, the learning experience must be pre-approved by the department, and the appropriate faculty member must supervise the work.

Total Credit Hours **64-66**

Code	Title	Hours	Prerequisites	Milestones/Notes
First Year				
Fall				
Mathematics Requirement (choose option one or option two):		5-6		
MTH 185	Precalculus (MOTR MATH 150)		MTH 140 with a grade of "C" or better or satisfactory score on placement test, and Reading Proficiency	(Option one)
MTH 160 & MTH 170	Precalculus Algebra (MOTR MATH 130) and Precalculus Trigonometry		MTH 140 with a grade of "C" or better or satisfactory score on placement test, and Reading Proficiency	(Option two)
EE 130	Electric Circuits I	4	MTH 140 or equivalent placement test scores or department approval and Reading Proficiency	
GE 101	Technical Computer Applications	3	Reading Proficiency	
EGR 104	Electronic Drafting	2	Reading Proficiency	
GE 131	Engineering Technology Orientation	1	Reading Proficiency	
Physical Education Elective		1		One credit must be an activity
Credit Hours		16-17		
Spring				
EE 131	Electric Circuits II	4	EE 130, MTH 170 or MTH 185, and Reading Proficiency	
EE 132	Electronic Devices	5	Prior or concurrent enrollment in EE 131 and Reading Proficiency	
ENG 101	College Composition I (MOTR ENGL 100)	3	Placement score or ENG 030 or ENG 070 with a grade of "C" or better or recommendation of department and Reading Proficiency or concurrent enrollment in RDG 079	
PHY 111 or CHM 101 or BIO 111 or BIO 207	College Physics I (MOTR PHYS 150L) or Fundamentals of Chemistry I (MOTR CHEM 100L) or Introductory Biology I (MOTR BIOL 100L) or Anatomy and Physiology I (MOTR LIFS 150LAP)	4-5	MTH 160 and Reading Proficiency	
Credit Hours		16-17		

Second Year				
Fall				
EE 106		1		
EE 233	Digital Logic	4	EE 130 or departmental approval and Reading Proficiency	
Approved Elective		4		
COM 101 or ENG 102 or ENG 103	Oral Communication I (MOTR COMM 100) or College Composition II (MOTR ENGL 200) or Report Writing (MOTR ENGL 110)	3	Reading Proficiency or concurrent enrollment in ENG 070	
Social & Behavioral Sciences: Civics Requirement		3		
	Credit Hours	15		
Spring				
Approved Elective		3		
Approved Elective		4		
Approved Elective		3		
Approved Elective		3		
Social & Behavioral Sciences Elective		3		
Physical Education Elective		1		One credit must be an activity
	Credit Hours	17		
	Total Credit Hours	64-66		

*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.