

COMPUTER INTEGRATED MANUFACTURING: AAS

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 2024, you may need to view an **archived catalog (<http://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 | |
| ME 151 or 120 | Manufacturing Processes I or Manual Machining I | 3 | Reading Proficiency | |
| GE 101 or 121 | Technical Computer Applications or | 3 | 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 | |
| EGR 100 or ME 154 | Engineering Drawing or Mechanical Blueprint Reading | 2-3 | Reading Proficiency | |
| GE 131 | Engineering Technology Orientation | 1 | Reading Proficiency | Discuss academic plan and elective choices with faculty advisor. |
| | Credit Hours | 15-16 | | |
| Spring | | | | |
| ME 212 or 152 | Introduction to Computer Numerical Control (CNC) Machining or | 3 | Reading Proficiency or departmental approval | Offered Spring semester only |
| EGR 133 | Introduction to AutoCAD I | 2 | Reading Proficiency | |
| ME 140 or 121 or 151 | Introduction to Robotics or Computer Integrated Manufacturing or | 3 | Reading Proficiency | Offered every 2 years |
| XXX xxx | CIM Elective | 3 | | Choose from ME, EGR, QC, GE |
| XXX xxx | Life and Physical Science Elective | 3 | | Choose from BIO, CHM, GEG 103, GEO, PHY, or PSI. College Physics is recommended. |
| XXX xxx | Health and Wellness Elective (http://catalog.stlcc.edu/course-descriptions/courses/hw/) | 1 | | |
| | Credit Hours | 15 | | |
| Second Year | | | | |
| Fall | | | | |
| ME 249 | Materials and Metallurgy | 3 | Reading Proficiency | Offered every 2 years |
| QC 212 | Quality Tools for Advanced Manufacturing | 3 | MTH 140 (or MTH 140S) with a minimum grade of "C" and Reading Proficiency | Offered every 2 years |

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|--|--|-------|--|---|
| COM 101 | Oral Communication I (MOTR COMM 100) | 3 | Concurrent enrollment in ENG 070 or Reading Proficiency | |
| EGR 147 or ME 230 or 145 or 148 | Introduction to Engineering Design or Introduction to 3-D Solid Modeling for Design or or | 2-4 | | |
| CIM Elective | | 5 | | Choose from ME, EGR, QC, GE |
| | Credit Hours | 16-18 | | |
| 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 | Final culminating project experience; Offered every 2 years |
| ME 133 | Production Control | 3 | Reading Proficiency | |
| CIM Elective | | 3 | | Choose from ME, EGR, QC, GE |
| XXX xxx | Health and Wellness Elective (http://catalog.stlcc.edu/course-descriptions/courses/hw/) | 1 | | |
| XXX xxx | Social & Behavioral Sciences: Civics Requirement (http://catalog.stlcc.edu/general-education/) | 3 | | Apply for graduation. |
| XXX xxx | MOTR Social & Behavioral Sciences Elective (http://catalog.stlcc.edu/general-education/) | 3 | | |
| | Credit Hours | 17 | | |
| | Total Credit Hours | 63-66 | | |

*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.