

MECHANICAL ENGINEERING TECHNOLOGY

Certificate(s) may have additional courses that do not overlap with the degree. Please see Certificate program page for complete listing of required courses.

| Code | Title | Credit Hours |
|---|---|--------------|
| MATH-1530 | College Algebra ¹ | 4 |
| MET-1100 | Technology Orientation | 2 |
| MET-1120 | Computer Applications and Programming | 2 |
| MET-1230 | Drawing & AutoCAD | 3 |
| Arts & Humanities (see below list) | | 3 |
| Select one of the following: | | 3 |
| ENG-1010 | College Composition I | |
| ENG-101H | Honors College Composition I | |
| MATH-1540 | Trigonometry | 3 |
| MET-1240 | Machine Tools and Manufacturing Processes | 3 |
| MET-1601 | Technical Statics ² | 3 |
| PHYS-1210 | College Physics I ³ | 4 |
| Select one of the following: | | 3 |
| ENG-1020 | College Composition II | |
| ENG-102H | Honors College Composition II | |
| ENG-2151 | Technical Writing | |
| MET-1300 | Engineering Materials and Metallurgy | 3 |
| MET-1621 | Technical Dynamics ⁴ | 3 |
| MET-2041 | CAD II & GD&T | 3 |
| MET-2200 | Strength of Materials ⁵ | 3 |
| MET-2240 | Mechanical Engineering Lab | 1 |
| MET-2300 | Fluid Power ⁶ | 3 |
| HLTH-1230 | Standard First Aid and Personal Safety | 1 |
| MET-2601 | 3D Solid Modeling | 3 |
| MET-2700 | Machine Design | 4 |
| PHYS-1220 | College Physics II | 4 |
| Social & Behavioral Sciences requirement (see below list) | | 3 |

¹ MATH-1610 Calculus I will be accepted in place of both MATH-1530 College Algebra and MATH-1540 Trigonometry but an additional 2 credit hours of general electives may be needed to meet degree requirements.

² MET-2610 Statics will be accepted in place of MET-1601 Technical Statics to meet this requirement. MET-2610 Statics, MET-2620 Dynamics, and MET-2630 Engineering Strength of Materials are recommended for students planning to transfer.

³ PHYS-2310 General Physics I & PHYS-2320 General Physics II will be accepted in place of PHYS-1210 College Physics I & PHYS-1220 College Physics II, PHYS-2310 General Physics I & PHYS-2320 General Physics II are recommended for students planning to transfer.

⁴ MET-2620 Dynamics will be accepted in place of MET-1621 Technical Dynamics to meet this requirement.

⁵ MET-2630 Engineering Strength of Materials will be accepted in place of MET-2200 Strength of Materials to meet this requirement.

⁶ MET-2320 Thermal Dynamics will be accepted in place of MET-2300 Fluid Power to meet this requirement.

Students should select at least one designated cultural sensitivity course and at least one designated Civic Responsibility course to fulfill their Arts & Humanities or Social & Behavioral Science requirements from the below lists. View full list of courses that can be selected to fulfill Arts and Humanities, Social and Behavioral Sciences, and Natural Sciences requirements here.

Recommended Cultural Sensitivity Electives

| Code | Title | Credit Hours |
|---------------------------------------|--|--------------|
| ARTS AND HUMANITIES | | |
| DANC-1100 | Dance Appreciation | 3 |
| ENG-2310 | American Literature I | 3 |
| ENG-2320 | American Literature II | 3 |
| ENG-2430 | Introduction to Literature: Drama ¹ | 3 |
| ENG-2310 | American Literature I | 3 |
| ENG-2320 | American Literature II | 3 |
| ENG-2510 | African-American Literature I ¹ | 3 |
| ENG-2520 | African-American Literature II ¹ | 3 |
| ENG-2601 | Literature for Children and Adolescents ¹ | 3 |
| ENG-2700 | World Literature ¹ | 3 |
| ENG-2710 | Shakespeare | 3 |
| ENG-2730 | Exploration of World Mythology ¹ | 3 |
| HIST-2031 | Islam to the Modern Middle East | 3 |
| HIST-2660 | Women in American History | 3 |
| HUM-1010 | Introduction to Humanities | 3 |
| HUM-1020 | The Individual in Society | 3 |
| HUM-102H | Honors Individual in Society | 3 |
| HUM-2020 | Community Engagement Through the Humanities | 3 |
| HUM-2030 | Culture and Belief | 3 |
| MUS-1010 | Survey of European Classical Music | 3 |
| MUS-1020 | Survey of Jazz | 3 |
| MUS-1030 | Survey of Rock and Roll | 3 |
| THEA-1010 | Theatre Appreciation | 3 |
| THEA-2210 | History of Theatre and Drama I | 3 |
| THEA-2220 | History of Theatre & Drama II | 3 |
| SOCIAL AND BEHAVIORAL SCIENCES | | |
| ANTH-1010 | Cultural Anthropology | 3 |
| ANTH-2010 | Peoples and Cultures of the World | 3 |
| HIST-1010 | History of Civilization I | 3 |
| HIST-101H | Honors History of Civilization I | 3 |
| HIST-1020 | History of Civilization II | 3 |
| HIST-102H | Honors History of Civilization II | 3 |
| HIST-1510 | United States History to 1877 | 3 |
| HIST-1700 | History of Africa | 3 |
| POL-2070 | International Relations | 3 |
| PSY-1010 | General Psychology | 3 |
| PSY-2020 | Life Span Development | 4 |
| SOC-2100 | Aging and Society | 3 |

| | | |
|----------|---------------------------|---|
| SOC-2410 | Sociology of Gender | 3 |
| SOC-2550 | Race and Ethnic Relations | 3 |

- Quality Control, Certificate of Proficiency
- Mechanical Engineering Technology, Associate of Applied Science

¹ Requires ENG-1020 College Composition II as a prerequisite.

Recommended Civic Responsibility Electives

| Code | Title | Credit Hours |
|---------------------------------------|---|--------------|
| ARTS AND HUMANITIES | | |
| HUM-1020 | The Individual in Society | 3 |
| HUM-102H | Honors Individual in Society | 3 |
| HUM-2030 | Culture and Belief | 3 |
| PHIL-1000 | Critical Thinking | 3 |
| PHIL-2050 | Bioethics | 3 |
| SOCIAL AND BEHAVIORAL SCIENCES | | |
| GEOG-2030 | Environmental Geography | 3 |
| HIST-1510 | United States History to 1877 | 3 |
| HIST-1520 | United States History Since 1877 | 3 |
| HIST-152H | Honors United States History since 1877 | 3 |
| POL-1010 | American National Government | 3 |
| POL-101H | Honors American National Government | 3 |
| POL-1020 | State & Local Government | 3 |
| POL-2030 | Comparative Politics | 3 |
| POL-2070 | International Relations | 3 |
| UST-1010 | Introduction to Urban Studies | 3 |

Other Content

MATH-1140, MATH-1141, MATH-1200, MATH-1270, and MATH-1280 can no longer count towards fulfilling the college-level mathematics requirement. These courses were re-classified as developmental mathematics by the state of Ohio in 2016. Tri-C established a 5-year transitioning window for students who had completed these courses prior to 2016 to apply them towards meeting graduation requirements, which expired in Summer 2021. It is highly recommended to see a counselor to determine the appropriate math required for your current major.

Related Degrees and Certificates

- Computer-Aided Drafting (CAD), Certificate of Proficiency
- Computer-Integrated Manufacturing (CIM), Certificate of Proficiency
- Machine Tools Operation, Certificate of Proficiency