



Certificate #4350 Mechanical Technology

31 Credits

Effective Fall 2019

This is an overview of the program. Any suggested course sequencing is meant to serve as a guideline for your semester planning. Students are expected to see your assigned advisor to develop and review their individual educational plans. The scheduling of courses, program sequencing and curriculum are subject to change.

Developmental Courses (as determined through College Placement Testing)* and Prerequisites:

* Zero level courses must be completed with a C grade or higher.

| | | | | | | | | | |
|--------------------------|-------------|--------------------------|----------|--------------------------|----------|--------------------------|----------|--------------------------|------------|
| <input type="checkbox"/> | ESL classes | <input type="checkbox"/> | Engl 050 | <input type="checkbox"/> | Math 006 | <input type="checkbox"/> | Math 033 | <input type="checkbox"/> | FS 100/103 |
| <input type="checkbox"/> | Engl 002 | <input type="checkbox"/> | Engl 051 | <input type="checkbox"/> | Math 090 | <input type="checkbox"/> | Math 044 | <input type="checkbox"/> | |
| <input type="checkbox"/> | Engl 003 | <input type="checkbox"/> | Engl 057 | <input type="checkbox"/> | Math 008 | <input type="checkbox"/> | Math 045 | <input type="checkbox"/> | |
| <input type="checkbox"/> | Engl 007 | | | <input type="checkbox"/> | Math 022 | <input type="checkbox"/> | Math 055 | <input type="checkbox"/> | |

*See counselor/advisor to discuss this course or options to self-remediate and successfully place into higher- or college-level course.

Required Program Courses (31 credits)

| | | | |
|-------------------|-------|--|---|
| CAD 154 | 3 crs | Computer-Aided Drafting & Design | |
| ELEC 100 | 1 cr | Fundamentals Electricity & Electronics | Pre: MATH 033 with C or higher; Co-req: MATH 044 and 055 (or MATH 051) |
| ENGR 102 | 2 crs | Engr. & Engineering-Tech Orientation | Pre: Eligibility for enrolment into ENGL 101 (meets 1-cr FYS requirement) |
| ENGR 208 | 3 crs | Microcontrollers and PLC's | Pre: ELEC 100 <u>or</u> ELOC 153 with a grade of C or higher |
| GTEC 104 | 3 crs | Engineering Materials & Processes | Pre: MATH 033, 044, & 055 (or MATH 051) with grades of C or higher |
| GTEC 201 | 3 crs | Statics | Pre: MATH 103 and 104 with grades of C or higher |
| IA 205 | 3 crs | Computer Numerical Control | Pre: CAD 154 <u>and</u> MDES 207 with grades of C or higher |
| MATH 103 | 3 crs | College Algebra | Pre: Placement <u>or</u> MATH 033, 044, & 055 (or MATH 051) with C grades or higher |
| MATH 104 | 3 crs | Trigonometry | Pre: Placement <u>or</u> MATH 033, 044, & 055 (or MATH 051) with C grades or higher |
| MDES 207 | 1 cr | Machine Shop Theory & Practice | |
| Program Electives | 6 crs | Program Electives (Note # of credits and prerequisites for listed courses. Transfer electives vary with specialized fields and transfer institutions) | Select from the following: ACCT 101; CAD 115, 164; CPS 113, 115, 135; CHEM 101; CVTE 120, 208; ELEC 101, 108, 125, 126; ENGR 291; GTEC 202, 208; MDES 201, 204, 206; MDRF 101, 103; MATH 202, 119, 121; MGMT 201; PHYS 201, 202 |

Recommended Sequence for Full-Time Students (Part-time students can complete this program by taking one or more courses each semester.)

| Fall Semester I | | Spring Semester I | | | | | |
|-----------------|-----------|-------------------|-----------|--|--|--|--|
| CAD 154 | 3 | ENGR 208 | 3 | | | | |
| ELEC 100 | 1 | GTEC 104 | 3 | | | | |
| ENGR 102 (FYS) | 2 | GTEC 201 | 3 | | | | |
| MATH 103 | 3 | IA 205 | 3 | | | | |
| MATH 104 | 3 | Program Electives | 6 | | | | |
| MDES 207 | 1 | Total credits | 18 | | | | |
| Total credits | 13 | | | | | | |

Counselor/Advisor Contact Information by Campus:

| Gettysburg | Harrisburg | Lancaster | Lebanon | York |
|------------------|-------------------------|-------------------------|-------------------|-------------------------|
| Student Services | Counseling and Advising | Counseling and Advising | Receptionist Desk | Counseling and Advising |
| Lobby | Cooper 219 | 221 Main | Lobby | Leader Suite 104 |
| 717-337-3855 | 717-780-2498 | (717) 358-2988 | 717-270-4222 | 717-801-3213 |

Program Faculty Coordinators:
Forrest Lysinger frlysing@hacc.edu (717-736-4223) or Kim Ketelsleger kaketels@hacc.edu (717-736-4224)