



# Mechanical Technology

Certificate #4350

30 credits

*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 their 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 as Prerequisites:**

\*Please note: 0-level courses do not transfer & do not count toward graduation requirements; however, they are required to enter college level courses.

English as Second Language	Reading Comprehension	Math Placement	
___ Any ENGL ESL classes*	___ ENGL 001*	___ FS107	If tested prior to April 2016-see advisor ___ MATH 020* ___ MATH 051*
<b>Writing Fundamentals</b>	___ ENGL 002*	___ MATH 008*    ___ MATH 022*	
___ ENGL 050*	___ ENGL 003*	___ MATH 033*    ___ MATH 044*    ___ MATH 055*	
___ ENGL 051*		___ Other	

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

Required Program Courses (30 credits)		
CAD 154 Computer-Aided Drafting & Design	3 crs	
ELEC 100 Fundamentals Electricity & Electronics	1 cr	Pre: MATH 033 with C or higher; Coreq: MATH 044 and 055 (or MATH 051)
ENGR 102 Engr. & Engineering-Tech Orientation	2 crs	(meets 1-cr FYS requirement)
GTEC 104 Engineering Materials & Processes	3 crs	Pre: MATH 033, 044, & 055 (or MATH 051) with grades of C or higher
GTEC 201 Statics	3 crs	Pre: MATH 103 and 104 with grades of C or higher
IA 205 Computer Numerical Control	3 crs	Pre: CAD 154 and MDES 207 with grades of C or higher
IA 208 PLC's and Automation	2 crs	Pre: ELEC 100 or ELOC 153 with a grade of C or higher
MATH 103 College Algebra	3 crs	Pre: Placement or MATH 051 (or Math033-044-055) with grade of C or higher
MATH 104 Trigonometry	3 crs	Pre: Placement or MATH 051 (or Math033-044-055) with grade of C or higher
MDES 207 Machine Shop Theory & Practicw	1 cr	
Program Elective (Note # of credits and prerequisites for listed courses; Transfer electives vary with specialized fields and transfer institutions)	6 crs	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

Counselor/Advisor Contact Information by Campus: Students are encouraged to meet with their assigned counselor/advisor				
Gettysburg	Harrisburg	Lancaster	Lebanon	York
Student Services	Advising and Transfer Center	Counseling and Advising	Receptionist Desk	Welcome Center
Lobby	Cooper Student Union 219	Main 221	Lobby	Leader 102
717-337-3855	717-780-2498	717-358-2988	717-270-4222	717-801-3213, ext. 3513
Program Faculty Coordinators: Forrest Lysinger <a href="mailto:frlysing@hacc.edu">frlysing@hacc.edu</a> (717-736-4223) or Kim Ketelsleger <a href="mailto:kaketels@hacc.edu">kaketels@hacc.edu</a> (717-736-4224- Midtown II Rm301H)				

**Recommended Course Sequencing:**

Fall Semester I		Spring Semester I		Summer I / Fall II
CAD 154	3	GTEC 104	3	(Program Electives may be taken summer / fall)
ELEC 100	1	GTEC 201	3	
ENGR 102 (FYS)	2	IA 205	3	
MATH 103	3	IA 208	2	
MDES 207	1	MATH 104	3	
Program Electives	6		<b>14</b>	
	<b>16</b>			