



AS #4850 Structural Engineering Technology

61 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"/>		<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.

General Education Courses (19 credits)		
ENGL 101	3 crs	Pre-req: Placement thru testing, or ENGL 051 & ENGL 003 with grades of C or higher
ENGL 104	3 crs	Pre-req: ENGL 101 & ENGL 003 with grades of C or higher
COMM 101	3 crs	Pre-req: Placement thru testing, or ENGL 051 & ENGL 003 with grades of C or higher
Humanities and Arts Elective	3 crs	
Social and Behavioral Sciences	3 crs	
Science Elective (with Lab)	3 crs	
Any Wellness Course	1 cr	See HACC catalog for a list of approved Wellness courses
First Year Seminar		ENGR 102 (meets 1-cr FYS) or see HACC Catalog for a list of approved courses (unless exempted by examination-see http://www.hacc.edu/NewStudents/PlacementTesting/index.cfm).

Required Program Courses (42 credits)			
CAD 154	3 crs	Computer-Aided Drafting & Design	
CVTE 103	3 crs	Surveying I	
CVTE 208	3 crs	Strength of Materials	Pre: GTEC 201 with a grade of C or higher
ENGR 102	2 crs	Engr. & Engineering-Tech Orientation	Pre: Eligibility for enrolment into ENGL 101 (meets 1-cr FYS requirement)
GTEC 104	3 crs	Engineering Materials & Processes	
GTEC 201	3 crs	Statics	Pre: MATH 103 <u>and</u> 104 with grades of C or higher
GTEC 208	1 cr	Strength of Materials Lab	Pre: GTEC 201 with a grade of C or higher
SET 201	3 crs	Intro to Structural Engineering Tech	Pre: ARCH 130 <u>and</u> ENGR 102 with grades of C or higher; or, Permission of the Instructor
SET 202	3 crs	Structural Design Fund & Concepts	CVTE 208 <u>and</u> SET 201 with grades of C or higher; or Instructor permission
MATH 103	3 crs	College Algebra	Pre: Placement or MATH 051 (or Math033-044-055) with grade of C or higher
MATH 104	3 crs	Trigonometry	Pre: Placement or MATH 051 (or Math033-044-055) with grade of C or higher
Program Electives	12 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; ARCH 253; BCT 215; CAD 115, 164; CPS 113, 115, 135; CHEM 101; CVTE 120, 208; ELEC 100, 101, 108, 125, 126; ENGR 291; IA 205, 208; MDRF 101, 103; MATH 202, 119, 121; MGMT 201; MDES 201, 204, 206; 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		Summer		Fall Semester II		Spring Semester II	
CAD 154	3	COMM 101	3	CVTE 103	3	CVTE 208	3	GTEC 208	1
ENGL 101	3	ENGL 104	3	Total credits	3	Program Electives	6	Program Electives	6
ENGR 102 (FYS)	2	GTEC 104	3			SET 201	3	SET 202	3
MATH 103	2	GTEC 201	3			Social/Behavioral Science	3	Science w/ Lab	3
MATH 104	4	Humanities & Arts	3			Total credits	15	Total credits	13
Wellness	1	Total credits	15						
Total credits	15								

SUGGESTED ADDITIONAL SEQUENCE FOR STUDENTS TRANSFERRING TO A BSSET PROGRAM							
Fall Semester III for Transfer Students				Spring Semester III for Transfer Students			
CHEM 101 (Inorganic Chemistry)	4	Transfer Electives*	6				
Transfer Elective*	3	MATH 121 (Calculus I)	4				
MATH 119 (Pre-Calculus, 12-wk Session)	4	PHYS 202 (General Physics II)	4				
PHYS 201 (General Physics I)	4	Wellness (PSU Only)	1				
Wellness (PSU Only)	1	Total Credits	15				
Total Credits	16						

*Students are to select courses that are suited for their intended transfer institution

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Counselor/Advisor Contact Information by Campus:				
<u>Gettysburg</u>	<u>Harrisburg</u>	<u>Lancaster</u>	<u>Lebanon</u>	<u>York</u>
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)				