STRUCTURAL DESIGN AND CONSTRUCTION ENGINEERING TECHNOLOGY, B.S.

Begin Campus: Any Penn State Campus

End Campus: Harrisburg

Degree Requirements

For the Bachelor of Science degree in Structural Design and Construction Engineering Technology, a minimum of 125 credits is required:

Requirement	Credits
General Education	45
Electives	0-8
Requirements for the Major	96-106

24 of the 45 credits for General Education are included in the Requirements for the Major. This includes: 9 credits of GN courses; 6 credits of GQ courses; 3 credits of GS courses; 3 credits of GWS courses; 3 credits of GHW courses.

Requirements for the Major

To graduate, a student enrolled in the major must earn a grade of C or better in each course designated by the major as a C-required course, as specified by Senate Policy 82-44 (https://senate.psu.edu/policies-andrules-for-undergraduate-students/82-00-and-83-00-degree-requirements/ #82-44).

Common Requirements for the Major (All Options)

Code	Title	Credits		
Prescribed Courses				
CET 308	Construction Methods and Materials	3		
CET 342	Civil Engineering Materials - Concrete and Bituminous	3		
CET 343	Soils Mechanics	3		
CET 434	Foundations	3		
CHEM 110	Chemical Principles I	3		
CHEM 111	Experimental Chemistry I	1		
ET 200	Graphic Communications	3		
SSET 295	Internship	1		
Prescribed Courses: Require a grade of C or better				
CE 254	Personal & Occupational Safety	3		
CE 333W	Construction Management I	3		
CET 430	Structural Analysis	3		
CET 431	Structural Design-Steel	3		
CET 432	Structural Design-Reinforced Concrete	3		
CET 435	Construction Estimating	3		
ENGL 202C	Effective Writing: Technical Writing	3		
MATH 140	Calculus With Analytic Geometry I	4		
Additional Courses				
CE 310	Surveying	3-4		

or MET 214 Strength and Properties of Materials Laboratory Select 3 credits from the following: 3 EGT 102 Introduction to Computer Aided Drafting & EGT 201 and Advanced Computer Aided Drafting & EDSGN 100 Correrstone Engineering Design Select 3-4 credits from the following: 3-4 PHYS 250 Introductory Physics I Select 3 credits from the following: 3-4 PHYS 251 Introductory Physics II Select 3 credits from the following: 3 ECON 14 Principles of Economics ECON 104 Introductory Microeconomic Analysis and Policy ECON 104 Introductory Microeconomic Analysis and Policy ECON 104 Introductory Macroeconomic Analysis and Policy ECON 104 Introductor to Programming Techniques CMPSC 201 Programming for Engineers with C++ Select 3-4 credits from the following: 3-4 ACCTG 211 Financial and Managerial Accounting for Decision Making MGMT 100 Survey of Management MGMT 301 Basic Management Concepts Additional Courses: Require a grade of C or better MATH 141 Calculus with Analytic Getoemetry II 4 4 or STAT 200 Elementary Statistics Select 3 credits from the following: 3 EMCH 211 Statics ET 320 Strength of Materials ET 322 Strength of Materials ET 323 Strength and Properties of Materials ET 324 Credits from the following: 3 EACH 213 Strength and Properties of Materials ET 325 Prescribed Co			
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			3-4

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	ACCTG 211 Financial and Managerial Accounting for Decision Making				
	MGMT 100	Survey of Management			
	MGMT 301	Basic Management Concepts			
Se	elect 3 credits fr	rom the following:	3		
	AE 310	Fundamentals of Heating, Ventilating, and Air Conditioning			
	CE 321	Highway Engineering			
	ENVE 430	Sustainable Engineering			
	MET 435	Building Energy Systems			
Sı	upporting Cours	es and Related Areas			
Se	elect 3-4 credits	from approved program list	3-4		
	neral Option (2				
	ode	Title	Credits		
	escribed Cours				
		s: Require a grade of C or better			
	E 445	Advanced Structural Analysis	3		
	E 449	Advanced Structural Design	3		
	E 456	Planning and Scheduling	3		
	E 458	Construction Management II	3		
Additional Courses					
El	321	Dynamics	3		
	or EMCH 212	Dynamics			
CI	E 360	Fluid Mechanics	3		
0	or CET 361	Fluid Flow	0		
Se		rom the following:	3		
	AE 310	Fundamentals of Heating, Ventilating, and Air Conditioning			
	CE 321	Highway Engineering			
	ENVE 430	Sustainable Engineering			
	MET 435	Building Energy Systems			
		s: Require a grade of C or better			
CI	E 488C	Capstone Project - Construction	4		
	or CE 488D	Capstone Project - Structural Design			
St	ructural Design	Option (19-20 credits)			
С	ode	Title	Credits		
Pı	escribed Cours	es			
Pr	escribed Course	s: Require a grade of C or better			
C	E 445	Advanced Structural Analysis	3		
CE	E 449	Advanced Structural Design	3		
C	E 488D	Capstone Project - Structural Design	4		
A	Additional Courses				
C	ET 361	Fluid Flow	3		
	or CE 360	Fluid Mechanics			
E٦	321	Dynamics	3		
	or EMCH 212 Dynamics				
		es and Related Areas			
Se	Select 3-4 credits from approved program list3-4				

General Education

Connecting career and curiosity, the General Education curriculum provides the opportunity for students to acquire transferable skills necessary to be successful in the future and to thrive while living in interconnected contexts. General Education aids students in developing intellectual curiosity, a strengthened ability to think, and a deeper sense of aesthetic appreciation. These are requirements for all baccalaureate students and are often partially incorporated into the requirements of a program. For additional information, see the General Education Requirements (https://bulletins.psu.edu/undergraduate/generaleducation/baccalaureate-degree-general-education-program/) section of the Bulletin and consult your academic adviser.

The keystone symbol appears next to the title of any course that is designated as a General Education course. Program requirements may also satisfy General Education requirements and vary for each program.

Foundations (grade of C or better is required and Inter-Domain courses do not meet this requirement.)

- · Quantification (GQ): 6 credits
- · Writing and Speaking (GWS): 9 credits

Breadth in the Knowledge Domains (Inter-Domain courses do not meet this requirement.)

- Arts (GA): 3 credits
- · Health and Wellness (GHW): 3 credits
- Humanities (GH): 3 credits
- · Social and Behavioral Sciences (GS): 3 credits
- · Natural Sciences (GN): 3 credits

Integrative Studies

Inter-Domain Courses (Inter-Domain): 6 credits

Exploration

- · GN, may be completed with Inter-Domain courses: 3 credits
- GA, GH, GN, GS, Inter-Domain courses. This may include 3 credits of World Language course work beyond the 12th credit level or the requirements for the student's degree program, whichever is higher: 6 credits

University Degree Requirements First Year Engagement

All students enrolled in a college or the Division of Undergraduate Studies at University Park, and the World Campus are required to take 1 to 3 credits of the First-Year Seminar, as specified by their college First-Year Engagement Plan.

Other Penn State colleges and campuses may require the First-Year Seminar; colleges and campuses that do not require a First-Year Seminar provide students with a first-year engagement experience.

First-year baccalaureate students entering Penn State should consult their academic adviser for these requirements.

Cultures Requirement

6 credits are required and may satisfy other requirements

- · United States Cultures: 3 credits
- · International Cultures: 3 credits

Writing Across the Curriculum

3 credits required from the college of graduation and likely prescribed as part of major requirements.

Total Minimum Credits

A minimum of 120 degree credits must be earned for a baccalaureate degree. The requirements for some programs may exceed 120 credits.

Students should consult with their college or department adviser for information on specific credit requirements.

Quality of Work

Candidates must complete the degree requirements for their major and earn at least a 2.00 grade-point average for all courses completed within their degree program.

Limitations on Source and Time for Credit Acquisition

The college dean or campus chancellor and program faculty may require up to 24 credits of course work in the major to be taken at the location or in the college or program where the degree is earned. Credit used toward degree programs may need to be earned from a particular source or within time constraints (see Senate Policy 83-80 (https://senate.psu.edu/ policies-and-rules-for-undergraduate-students/82-00-and-83-00-degreerequirements/#83-80)). For more information, check the Suggested Academic Plan for your intended program.