



Pittsburg State University  
**College of Technology Program Guide**

Degree: Bachelor of Science in Engineering Technology  
 Major: Construction Engineering Technology  
 Emphasis/Option:  
 Minor (if required):

As of Fall 2017

**Major Requirements\***

**Technical Specialties (60 hours)**

CMCET 133: Construction Graphics .....3  
 CMCET 234: The Construction Industry .....3  
 CMCET 235: Methods of Construction-Light Frame & Finishes .....2  
 CMCET 330: Mechanical Systems (HVAC) .....3  
 CMCET 331: Electrical Systems .....3  
 CMCET 334: Methods of Construction-Sitework and Steel .....3  
 CMCET 335: Methods of Construction-Concrete and Masonry .....3  
 CMCET 337: Construction Materials Testing and Inspection .....2  
 CMCET 350: Mechanical Systems (Plumbing) .....2  
 CMCET 431: Structural Loads .....1  
 CMCET 434: Civil Construction .....3  
 CMCET 530: Construction Cost Management .....3  
 CMCET 536: Temporary Structures .....2  
 CMCET 537: Construction Surveying I .....3  
 CMCET 631: Construction Estimating I .....3  
 CMCET 632: Steel and Wood Structures .....3  
 CMCET 633: Concrete Structures .....3  
 CMCET 634: Construction Management .....3  
 CMCET 635: Contract Administration .....3  
 CMCET 637: Construction Surveying II .....3  
 CMCET 638: Foundation and Soil Mechanics .....3  
 CMCET 639: Construction Estimating II .....2  
 CMCET 690: Professional Construction Certification Seminar .....1  
 CMCET 691: Senior Project .....3

EST 396: Introduction to Construction Safety .....3  
 CMCET 200: Cooperative Education (\_\_\_) .....1-6  
 or CMCET 300: Cooperative Education (\_\_\_) .....3-6  
 or CMCET 400: Cooperative Education (\_\_\_) .....3-6

CMCET 200, 300 or 400 should be taken for at least 3 hours.

MATH 143 Elementary Statistics and ACCTG 201 Financial Accounting meet general education requirements.

\*\* Mathematics classes below MATH 122 Plane Trigonometry do not count towards degree requirements.

Accredited by the Engineering Technology Accreditation Commission of ABET, 111 Market Place Suite 1050, Baltimore, MD 21202 (410)625-2238  
<http://www.abet.org>

CMCET 234 The Construction Industry meets general education requirements.

\*A grade of "C" or better is required for credit toward graduation and to satisfy pre-requisite requirements in all CMCET courses, MATH 122 Plane Trigonometry (or equivalent).

**Support Courses (27-28 hours)\*\***

PHYS 101: College Physics II .....4  
 and PHYS 131: Elementary Physics Laboratory II .....1  
 or PHYS 105: Engineering Physics II .....4  
 or CHEM 112: Essentials of Chemistry .....3  
 and CHEM 113: Essentials of Chemistry Laboratory .....1  
 or CHEM 215: General Chemistry I .....3  
 and CHEM 216: General Chemistry I Laboratory .....2  
 MATH 122: Plane Trigonometry .....3  
 MATH 143: Elementary Statistics .....3  
 MATH 150: Calculus I .....5  
 MECET 220: Statics .....3  
 or PHYS 220: Engineering Mechanics I-Statics .....3  
 MECET 423: Mechanics of Materials .....3  
 ENGL 301: Technical/Professional Writing .....3  
 ACCTG 201: Financial Accounting .....3

# GENERAL EDUCATION REQUIREMENTS

(42-46 hrs.)

## Basic Skills 12 hours

COMM	207	Speech Communication.....	3
ENGL	101	English Composition.....	3
ENGL	190	Honors English Composition.....	3
OR ENGL	299	Introduction to Research Writing.....	3
MATH	143	Elementary Statistics.....	3

## Sciences 9-10 hours

Natural Sciences ( <i>Select one</i> )			
BIOL	111/112	General Biology and Laboratory.....	5
BIOL	113	Environmental Life Science.....	4
BIOL	211	Principles of Biology I.....	4
Physical Sciences ( <i>Select one</i> )			
PHYS	100	College Physics I.....	4
OR PHYS	104	Engineering Physics I.....	4
PHYS	130	Elementary Physics Laboratory I.....	1

## Social Studies (*Select one*) 3 hours

SOC	100	Introduction to Sociology.....	3
WGS	200	Introduction to Women's Studies.....	3

## Political Studies (*Select one*) 3 hours

POLS	101	U.S. Politics.....	3
POLS	103	Comparative Political Institutions.....	3

## Producing and Consuming 6 hours

Technology			
CMCET	234	The Construction Industry.....	3
Business			
ACCTG	201	Financial Accounting.....	3

## Fine Arts and Aesthetic Studies/Cultural Studies

(*Select one*) 2-3 hours

ANTH	101	Introduction to Cultural Anthropology.....	3
ART	155	Printmaking and Paper Arts.....	3
ART	178	Introduction to the Visual Arts.....	3
ART	188	The Designed World.....	3
ART	217	Crafts I.....	3
ART	222	Jewelry Design I.....	3
ART	233	Drawing I.....	3
ART	244	Ceramics I.....	3
ART	266	Sculpture I.....	3
ART	277	Painting I.....	3
ART	288	Introduction to Art History I.....	3
ART	289	Introduction to Art History II.....	3
ART	311	Art Education.....	3
ART	351	Printmaking, Papermaking, Bookarts and the Letterpress.....	3
ART	430	Automotive: Art and Design.....	3
COMM	105	Performance Appreciation.....	3
COMM	205	Performance Studies.....	3
COMM	295	Theatre History.....	3
ENGL	250	Introduction to Creative Writing.....	3
HHP	151	Dance Appreciation.....	3
MUSIC	120	Music Appreciation.....	3
MUSIC	121	Introduction to Music Literature.....	2

MLL	114	Chinese Language and Culture I.....	3
MLL	124	French Language and Culture I.....	3
MLL	154	Spanish Language and Culture I.....	3
MLL	184	Russian Language and Culture I.....	3
MLL	194	Korean Language and Culture I.....	3
GEOG	106	World Regional Geography.....	3
GEOG	300	Elements of Geography.....	3
GEOG	304	Human Geography.....	3
WGS	399	Global Women's Issues.....	3

## Health and Well Being 4-6 hours

Psychological			
PSYCH	155	General Psychology.....	3
Physical ( <i>Select one</i> )			
FCS	203	Nutrition and Health.....	3
FCS	301	Nutrition.....	3
HHP	150	Lifetime Fitness Concepts.....	1
NURS	303	Introduction to Public Health.....	3

## Human Heritage 3 hours

(*Select one from one of the following three categories*)

History			
HIST	101	World History to 1500.....	3
HIST	102	World History from 1500.....	3
HIST	201	American History to 1865.....	3
HIST	202	American History from 1865.....	3
Literature			
ENGL	113	General Literature.....	3
ENGL	114	General Literature(Genre).....	3
ENGL	116	General Literature(Theme).....	3
ENGL	120	Literature and Film.....	3
ENGL	315	Mythology.....	3
ENGL	320	Literature and Film.....	3
Philosophy			
PHIL	103	Introduction to Philosophy.....	3
PHIL	105	Ethics.....	3
PHIL	112	Biomedical Ethics.....	3
PHIL	113	Business Ethics.....	3
PHIL	114	Environmental Ethics.....	3
PHIL	207	Critical Thinking.....	3
PHIL	208	Logic.....	3
PHIL	231	World Religions.....	3

Notes

NOTE: The information contained herein is intended to be used for the planning of a student's academic program and does not constitute a contract. While this guide was prepared with the latest information, courses, graduation requirements, and curricula are subject to change.

When a student attains 85 semester hours of credit (including current enrollment) the student must apply for a degree check in the Office of the Registrar (Degree Checking Section), Room 102 Russ Hall.

**MINIMUM GENERAL REQUIREMENTS:** The minimum requirements for graduation include 124 semester hours of which 60 hours must be from a four year university. In addition, 45 semester hours must be upper division and 30 hours in residence at PSU (including 24 of the last 30). Minimum GPA for non-education degree is 2.0 overall [2.0 in major], secondary education degree is 2.5 overall [2.75 in major], and early/late childhood/unified degree is 2.80 overall [3.0 in major]. A minimum GPA of 2.0 in any minor and in residence coursework is required. General Education and all degree requirements are provided in the online catalog. Refer to individual departments for specific requirements.