Bachelor of Science in Technology Degree with a Major in Construction Management

Degree: Bachelor of Science in Technology
Major: Construction Management

Accreditation
Accredited by the Applied and Natural Science Accreditation Commission of ABET, http://www.abet.org

Core

Technical Specialties (53 hours)

See notes *1

- CMCET-133 Construction Graphics (3 hours)
- CMCET-234 The Construction Industry (2 hours)
- CMCET-235 Methods of Construction-Light Frame and Finishes (2 hours)
- CMCET-330 Mechanical Systems (HVAC) (3 hours)
- CMCET-331 Electrical Systems (3 hours)
- CMCET-333 Theory of Structures (3 hours)
- CMCET-334 Methods of Construction-Sitework and Steel (3 hours)
- CMCET-335 Methods of Construction-Concrete and Masonry (3 hours)
- CMCET-337 Construction Materials Testing and Inspection (2 hours)
- CMCET-350 Mechanical Systems (Plumbing) (2 hours)
- CMCET-410 Technical Construction Spanish for the Jobsite Supervisor (3 hours)
- CMCET-434 Civil Construction (3 hours)
- CMCET-530 Construction Cost Management (3 hours)
- CMCET-537 Construction Surveying I (3 hours)
- CMCET-631 Construction Estimating I (3 hours)
- CMCET-634 Construction Management (3 hours)
- CMCET-635 Contract Administration (3 hours)
- CMCET-639 Construction Estimating II (2 hours)

- CMCET-690 Professional Construction Certification Seminar (1 hour)
- CMCET-691 Senior Project (3 hours)

Notes *1: A grade of "C" or better is required for credit toward graduation and to satisfy pre-requisite requirements in all CMCET courses, MATH 113 College Algebra (or equivalent), MATH 122 Plane Trigonometry (or equivalent).

Support Courses (14 hours)

See notes *2

- CMCET-200 Construction Internship/Cooperative Education (1-6 hours)
- CMCET-300 Construction Internship/Cooperative Education (1-6 hours)
- CMCET-400 Construction Internship/Cooperative Education (1-6 hours)
- MATH-122 Plane Trigonometry (3 hours)
- ENGL-301 Technical/Professional Writing (3 hours)
- EST-296 Introduction to Construction Safety (3 hours)
- CMCET-401 Investigations in Technology (___) (1-4 hours)
- CMCET-795 Special Topics in CMCET (___) (1-3 hours)
- EST-496 Construction Safety (2 hours)
- and EST-497 Construction Safety Laboratory (1 hour)
- CMCET-401 Investigations in Technology (___) (1-4 hours)
- CMCET-795 Special Topics in CMCET (___) (1-3 hours)

Notes *2: Minimum of one hour of CMCET 200, 300, & 400 required.

Select one 12 hour Emphases from below:

Building Information Modeling (BIM) Emphasis

- CMCET-340 Building Information Modeling (BIM) (3 hours)
- CMCET-640 BIM Management (3 hours)
- CMCET-650 Civil Virtual Design and Construction (3 hours)
- CMCET-795 Special Topics in CMCET (___) (1-3 hours)

Civil Construction Emphasis

- CMCET-637 Construction Surveying II (3 hours)
- CMCET-650 Civil Virtual Design and Construction (3 hours)
- CMCET-651 Heavy/Highway/Bridge Construction (3 hours)
- CMCET-652 Utility Construction (3 hours)

Company Management Emphasis

See notes *3

- MGT-101 Introduction to Business (3 hours)
- MGT-330 Management and Organizational Behavior (3 hours)
- MGT-430 Legal and Social Environment of Business (3 hours)
- MGT-540 Human Resources Management (3 hours)

Notes *3: Or an approved Leadership course.

Approved Leadership courses include:

- LDSP-600 Foundations of Leadership (3 hours)
- TM-520 Leadership in the Workplace (3 hours)
Field Management Emphasis

See notes *4

- MFGET-162 Welding Processes and Procedures (3 hours)
- TM-606 Industrial Supervision (3 hours)
- CMCET-637 Construction Surveying II (3 hours)

Notes *4: Plus 3 hours of an approved Leadership course.

Approved Leadership Courses include:

- LDSP-600 Foundations of Leadership (3 hours)
- TM-520 Leadership in the Workplace (3 hours)
- MIL-303 Leadership Assessment and Development Course (4 hours)

Residential Construction Emphasis

- CMCET-332 Residential Design (3 hours)
- CMCET-336 Residential Land Development (3 hours)
- CMCET-338 Residential Codes/Inspection (3 hours)
- CMCET-435 Residential Construction Methods and Management (3 hours)

Safety Management Emphasis

- EST-512 Risk Assessment (3 hours)
- EST-630 Safety Management (3 hours)

Select 6 hours from:

- EST-204 Introduction to Fire Safety (3 hours)
- EST-326 Basic Electrical Safety (3 hours)
- EST-514 Industrial Hygiene (3 hours)
- EST-516 Hazardous Materials (3 hours)
- EST-629 Legal Issues in Environmental Health and Safety (3 hours)

Pitt State Pathway Requirements

Department preferred PittState Pathway for a Bachelor of Science in Technology Degree with a Major in Construction Management.

Core Elements (12 hours)

A0 - Written Communications

- ENGL-101 English Composition (3 hours)
- ENGL-299 Introduction to Research Writing (3 hours)

B0 - Verbal Communication

- COMM-207 Speech Communication (3 hours)

C0 - Quantitative/Analytic Methods

- MATH-113 College Algebra (3 hours)

Essential Studies (29 hours minimum)

D - The Human Experience (3 hours)

D3 - Non-Verbal and Creative Expression

- ART-178 Introduction to the Visual Arts (3 hours)
- ART-188 The Designed World (3 hours)
- ART-217 Crafts I (3 hours)
- ART-222 Jewelry Design I (3 hours)
- ART-233 Drawing I (3 hours)
- ART-244 Ceramics I (3 hours)
- ART-266 Sculpture I (3 hours)
- ART-277 Painting I (3 hours)
- ART-288 Introduction to Art History I (3 hours)
- ART-289 Introduction to Art History II (3 hours)
- ART-311 Art Education (3 hours)
- COMM-105 Performance Appreciation (3 hours)
- COMM-205 Performance Studies (3 hours)
- COMM-395 Theatre History (___) (3 hours)
- HHP-151 Dance Appreciation (3 hours)
- MUSIC-120 Music Appreciation (___) (3 hours)
- MUSIC-121 Introduction to Music Literature (3 hours)
- MUSIC-321 History of Music (3 hours)
- MUSIC-322 History of Music (3 hours)

E - Human Systems (12 hours)

E1 - Diverse Perspectives (6 hours)

- ANTH-101 Introduction to Cultural Anthropology (3 hours)
- GEOG-106 World Regional Geography (3 hours)
- GEOG-300 Elements of Geography (3 hours)
- GEOG-304 Human Geography (3 hours)
- HIST-101 World History to 1500 (3 hours)
- HIST-102 World History from 1500 (3 hours)
- HIST-201 American History to 1865 (3 hours)
- HIST-202 American History from 1865 (3 hours)
- MFGET-405 Quality Control (3 hours)
- MLL-124 French Language and Culture I (3 hours)
- MLL-154 Spanish Language and Culture I (3 hours)
- PHIL-103 Introduction to Philosophy (3 hours)
- PHIL-231 World Religions (3 hours)
- POLS-103 Comparative Politics (3 hours)
- SOC-100 Introduction to Sociology (3 hours)
- WGS-399 Global Women's Issues (3 hours)

E2 - Social Responsibility (6 hours)

- ECON-191 Issues in Today's Economy (3 hours)
- ECON-200 Principles of Microeconomics (3 hours)
- ECON-201 Principles of Macroeconomics (3 hours)
- ETECH-502 Engineering Economy (3 hours)
- FCS-230 Consumer Education and Personal Finance (3 hours)
- GT-190 Introduction to Technological Systems (2 hours)
- GT-350 Technology and Civilization (3 hours)
- NURS-303 Introduction to Public Health (3 hours)
- PHIL-105 Ethics (3 hours)
- PHIL-112 Biomedical Ethics (3 hours)
- PHIL-113 Business Ethics (3 hours)
__ PHIL-114 Environmental Ethics (3 hours)
__ POLS-101 U.S. Politics (3 hours)
__ WGS-200 Introduction to Women's Studies (3 hours)

**F - Natural World (4 hours)**

**F4 - Scientific Inquiry**
__ PHYS-171 Physical Science (3 hours)
and __ PHYS-172 Physical Science Laboratory (1 hour)

**G - Wellness Strategies (4 hours)**

**G0 - No Companion**
__ EXSCI-200 Introduction to Exercise Science (1 hour)
__ HHP-150 Lifetime Fitness Concepts (1 hour)

**G4 - Scientific Inquiry**
__ PSYCH-155 General Psychology (3 hours)

**H - Gorilla Gateway**

**H0 - No Companion**
__ UGS-150 Gorilla Gateway (2)

**Elective (4 hours)**
__ BIOL-113 Environmental Life Science (4 hours)

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