

# Civil Engineering Technology, B.S. Structures Concentration

303-556-3227

Plaza Building 262

College of Professional Studies

Catalog 15-16

This sheet applies to the 2015-2016 catalog *only*. It does not replace the full catalog or departmental advising sheets as official statements of requirements. Students with declared majors *must* work with a faculty advisor on course selection and sequencing to ensure a timely graduation.

General Studies	38 min.
Major courses	72
Concentration	18 min.
<b>Total to graduate (min. 40 hrs. upper division)</b>	<b>128-135</b>

Students who have reached junior standing (60 hrs) should request a CAPP (graduation compliance report) and review it with a faculty advisor.

## **\*TO BE COMPLETED WITHIN FIRST 30-CREDIT HOURS AT MSU DENVER**

### Written Communication

- ENG 1010 (3 hrs) Composing Arguments\*  
**OR**  ENG 1008/1009 (6 hrs) Intro to Composition I and II\*  
 ENG 1020 (3 hrs) Freshman Comp: Anly, Rsrch, & Documt. (must be completed within 45-credit hours)

### Oral Communication\*

- SPE 1010 (3 hrs) Public Speaking

Quantitative Literacy\*: students must earn a grade of "C" or higher

- MTH 1410 (4 hrs) Calculus I  
**OR**  MTH 1400 (4 hrs) Pre-Calculus and MTH 1410 (4 hrs) Calculus I  
(**Note:** MTH 1110 (4 hrs) College Algebra and MTH 1120 (3 hrs) Trigonometry may substitute for MTH 1400).

### Arts & Humanities

- (3 hrs)  
 PHI 1030 (3 hrs) Ethics  
**OR**  PHI 3360 (3 hrs) Business Ethics

### Historical

- (3 hrs)

Natural & Physical Sciences: Students must earn a grade of "C" or higher

- CHE 1100 (4 hrs) Principles of Chemistry and CHE 1150 (1 hr) Lab  
 PHY 2311 (4 hrs) General Physics I and PHY 2321 (1 hr) Lab

### Social & Behavioral Science I\*

- (3 hrs)

### Social & Behavioral Science II\*

- ECO 2020 (3 hrs) Principles of Microeconomics

### Global Diversity

- (3 hrs) may be satisfied within General Studies

**MAJOR COURSES:** (students must earn a grade of "C" or higher in all major courses). See a faculty advisor

- CET 1100 (3 hrs) Introduction to Civil Engineering Technology**  
**OR**  **CET 1040 (3 hrs) Introduction to Engineering**  
 CET 1215 (3 hrs) Engineering Graphics  
 CET 2100 (3 hrs) Structural Drawing  
**OR**  ARCH 2003 (3 hrs) Building Structures  
 CET 2150 (3 hrs) Mechanics I - Statics  
 CET 3120 (3 hrs) Engineering Economy  
 CET 3135 (4 hrs) Mechanics of Materials with Laboratory  
 CET 3170 (3 hrs) Introduction to Structural Analysis  
 CET 3185 (3 hrs) Fluid Mechanics I for Civil Engineering Technology  
 CET 3190 (3 hrs) Fluid Mechanics II for Civil Engineering Technology  
 CET 3330 (3 hrs) Environmental Technology Process  
 CET 4100 (1 hr) Senior Project I  
 CET 4110 (2 hrs) Senior Project II  
 CET 4130 (4 hrs) Soils Mechanics (Sr. Exp.)  
 CET 4135 (3 hrs) Foundation and Geotechnical Engineering  
 CET 4150 (3 hrs) Highway Engineering and Surveying  
 CET 4570 (3 hrs) Engineering Law  
 COM 2610 (3 hrs) Introduction to Technical Writing  
 EET 2350 (3 hrs) Advanced Technical Programming  
 MET 3110 (3 hrs) Thermodynamics  
 MET 3160 (3 hrs) Mechanics II - Dynamics  
 MTH 2410 (4 hrs) Calculus II  
 MTH 2420 (4 hrs) Calculus III  
 PHY 2331 (4 hrs) General Physics II and PHY 2341 (1 hr) Lab

Structures Concentration:

- CET 4120 (3 hrs)  CET 4410 (3 hrs)  
 CET 4140 (3 hrs)  CET 4450 (3 hrs)  
 CET 4400 (3 hrs)  3 approved technology elective

### Multicultural Requirement

(may be satisfied within General Studies)

## **ELECTIVES**