

# Civil Engineering Technology, B.S. Structures Concentration

303-556-3227 Plaza Building 262

School of Professional Studies

Catalog 13-14

This sheet applies to the 2013-2014 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	43 min
Major courses	53-57
Concentration	18
Additional required courses	12
<b>Total to graduate (min. 40 hrs. upper division)</b>	<b>129-135</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 (3hrs) Composing Arguments\*
- OR**  ENG 1008/1009 (6 hrs.) Freshman Comp: The Essay Part I & II\*
- ENG 1020 (3hrs) Freshman English: Rsrch, Anly, & 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 & MTH 1410 (4 hrs) Calculus I
- (**Note:** MTH 1110-4 College Algebra & MTH 1120-3 Trigonometry may substitute for MTH 1400).

### Arts & Humanities

- (3 hrs)
- 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 & CHE 1150 (1 hr) Lab
- PHY 2311 (4 hrs) General Physics I & PHY 2321 (1 hr) Lab
- PHY 2331 (4 hrs) General Physics II & PHY 2341 (1 hr) Lab

### Social & Behavioral Science I\*

- (3 hrs) (IND 2810 is recommended)

### Social & Behavioral Science II\*

- (3 hrs)

### Global Diversity

- IND 2810 Technology & Design: Global Perspectives (recommended)

\*Students are required to take ECO 2010 or ECO 2020. One of these may be applied to a social science category within general studies.

MAJOR COURSES: students must earn a grade of "C" or higher in all major courses

- CET 1100 (3 hrs) Introduction to Civil Engineering Technology**
- CET 1215 (3 hrs) Engineering Graphics
- CET 2100 (3 hrs) Structural Drawing
- CET 2150 (3 hrs) Mechanics I - Statics
- CET 3120 (3 hrs) Engineering Economy
- CET 3135 (3 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 (Senior Experience)
- 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
- MET 3110 (3 hrs) Thermodynamics
- MET 3160 (3 hrs) Mechanics II - Dynamics

One of the following:

- CS 1050-4  CSS 1247-4  CSS 1510-4  EET 2340-3

### Structures Concentration

- CET 4120-3  CET 4400-3  CET 4450-3
- CET 4140-3  CET 4410-3  -3 approved tech. elective

Additional Requirements: Must earn a grade of "C" or higher

- MTH 1410-4 Calculus I (may meet general studies Quantitative Literacy requirement)
- MTH 2410-4 Calculus II
- MTH 2420-4 Calculus III

### Multicultural Requirement

(may be satisfied within General Studies)

### **Electives**