

# Civil Engineering Technology, B.S. Construction Concentration

303-556-3227 Plaza Building 262

Catalog 12-13

This sheet applies to the 2012-2013 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) Freshman Comp: the Essay\*  
**OR** \_\_\_ ENG 1008/1009 (6 hrs.) Freshman Comp: The Essay Part I & II\*  
\_\_\_ ENG 1020 (3hrs) Freshman Comp: Anal., Rsrch & Docum. (must be completed within 45-credit hours)

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).

### Oral Communication

- \_\_\_ SPE 1010 (3 hrs) Public Speaking

### 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

- \_\_\_ IND 2810 (3 hrs) Technology & Design: Global Perspectives (recommended)

### Social & Behavioral Science II

- \_\_\_ ECO 2020-3 Principles of Economics: Micro

### Global Diversity

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

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**  
\_\_\_ 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

### Construction Concentration:

- \_\_\_ CET 3100-3 \_\_\_ CET 4120-3 \_\_\_ CET 4400-3 \_\_\_ CET 4450-3  
\_\_\_ CET 3110-3 \_\_\_ -3 approved tech. elective

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

- \_\_\_ MTH 1410-4 Calculus I (may meet general studies math requirement)  
\_\_\_ MTH 2410-4 Calculus II  
\_\_\_ MTH 2420-4 Calculus III

### Multicultural Requirement

(may be satisfied within General Studies)