

Civil Engineering Technology (A.A.S.)

Division of Mathematics, Engineering Technologies and Computer Sciences — Curriculum Code: 5309

Will Earn Upon Program Completion: Associate in Applied Science (A.A.S.) Degree

The Civil Engineering Technology (CET) degree program prepares students for employment in the construction and civil engineering fields. Employment opportunities can be found with engineering firms, building contractors, utility companies, materials testing companies, or engineering departments of governmental agencies. The program is accredited by the Engineering Technology Accreditation Commission or 'ABET', <http://www.abet.org>.

Program Requirements

GENERAL EDUCATION REQUIREMENTS (20 CREDITS)

Written & Oral Communication (6 credits)

[ENG 101](#) (3 credits)

[ENG 102](#) or [ENG 105](#) (one 3-credit course)

Scientific Knowledge & Reasoning (4 credits)

[PHY 101](#) (one 4-credit course)

Quantitative Knowledge & Skills (6 credits)

[MTH 114](#) (3 credits)

[MTH 213](#) (3 credits)

Society & Human Behavior (3 credits)

Choose two of the following courses: [ANT 101](#)[ANT 105](#)[ECO 101](#)[ECO 102](#)[POL 101](#)[POL 104](#)[PSY 101](#)[PSY 102](#)[PSY 219](#)[SOC 101](#)[SOC 108](#) or [SOC 219](#) (one 3-credit courses)

Historical Perspective (3 credits)

Choose one of the following history courses: [HST 101](#)[HST 102](#)[HST 111](#)[HST 112](#)[HST 121](#)[HST 122](#)[HST 131](#)[HST 132](#)[HST 134](#)[HST 135](#)[HST 136](#)[HST 137](#)[HST 161](#) or [HST 162](#) (one 3-credit course)

MAJOR COURSE REQUIREMENTS

[CET 111](#) Construction Methods and Materials (3 credits)

[CET 211](#) Surveying I (3 credits)

[CET 212](#) Surveying II (3 credits)

[CET 221](#) Hydraulics and Drainage (4 credits)

[CET 225](#) Soil Mechanics (3 credits)

[CET 231](#) Structures (4 credits)

ENR 100 Intro. to Engineering (2 credits)

[ENR 103](#) Engineering Graphics (2 credits)

[ENR 105](#) Applied Computer-Aided Design (2 credits)

[ENR 110](#) Mechanics (3 credits)

[ENR 220](#) Mechanics of Materials (4 credits)

[CET 251](#) CET Seminar (1 credit)

ADDITIONAL COURSE REQUIREMENTS (11 CREDITS)

[CSC 112](#) Computer Programming for Engineering and Technology (3 credits)

[PHY 101](#) College Physics I (4 credits)

[PHY 102](#) College Physics II (4 credits)

RECOMMENDED SEQUENCE OF COURSES

Total Credits Required for Degree: 63

First Semester

[ENG 101](#) College Composition I (3 credits)

[CET 111](#) Construction Methods and Materials (3 credits)

[MTH 114](#) Unified Calculus (3 credits)

ENR 100 Intro. to Engineering (2 credits)

[MTH 113](#) College Algebra with Trigonometry (4 credits)

[PHY 101](#) College Physics I (4 credits)

Second Semester

[ENG 102](#) College Composition II or [ENG 105](#) Technical Writing (3 credits)

ENR 103 Engineering Graphics (2 credits)

[ENR 110](#) Mechanics (3 credits)

[MTH 213](#) Unified Calculus II (3 credits)

[PHY 102](#) College Physics II (4 credits)

Summer Session

Society & Human Behavior requirement (one 3-credit course)

Historical Perspective requirement (one 3-credit course)

Third Semester

[CET 211](#) Surveying I (3 credits)

[ENR 105](#) Applied Computer-Aided Design (2 credits)

[CSC 112](#) Computer Programming for Engineering and Technology (3 credits)
[ENR 220](#) Mechanics of Materials (4 credits)
[CET 225](#) Soil Mechanics (3 credits)

Fourth Semester

[CET 212](#) Surveying II (3 credits)
[CET 221](#) Hydraulics and Drainage (4 credits)
[CET 231](#) Structures (4 credits)
[CET 251](#) CET Seminar (1 credit)
Society & Human Behavior requirement (one 3-credit course)

NOTES:

(1) The two General Education Integrated Course Goals, Ethical Reasoning & Action and Information Literacy, are both addressed by the required curriculum described above, regardless of specific choices made by the individual student.

(2) This plan assumes the completion of all required developmental courses in Reading, English, and Mathematics as well as other [pre-requisites](#) and [co-requisites](#) for some of the courses, as listed in the Course Descriptions section.