

Civil Engineering Technology

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OWENS CAMPUS

Fall 2019

Civil Engineering Technology is one of the broadest fields in the overall practice of engineering because its work is coordinated with so many other areas of engineering. The curriculum provides a broad base instructional program suitable to many aspects of the construction industry. The employment opportunities are extensive, varying, and offer graduates numerous challenges in a growing technological society.

The program emphasizes practical applications in the areas of site development; route surveying and design; topographic drafting; hydraulics/hydrology; the selection, specification, and testing of soils, concrete, asphalt, and other construction materials for the construction industry. The use of computers for CAD, data acquisition, and analysis is integrated throughout the program preparing graduates for immediate productivity in the profession.

Graduates of the Civil Engineering Technology program may work as engineering technicians in offices of civil/surveying/structural/consulting engineering firms; local, state, and federal departments of natural resources; transportation/highway departments; material testing laboratories; and flood control and soil conservation agencies.

PROGRAM SPECIFIC ADVISEMENT STATEMENT

Courses - Semester 1	Credits	Lecture	Lab
SSC 100 - First Year Seminar	1	1	0
CET 125 - Civil & Envl Drafting & Design	3	2	4
EDD 171 - Intro to CAD Using AutoCAD	3	2	2
(ENG 101 - Crit Thinking & Acad Writing	3	3	
(MAT 180 - College Algebra	4	4	1
OR MAT 281 - Calculus I)	4	4	1
CET 135 - Engineering Materials	3	2	2
Courses - Semester 2	Credits	Lecture	Lab
CET 144 - Surveying Principles	4	3	3
CET 225 - Civil CAD Applications	3	2	3
ENG 102 - Composition and Research	3	3	
(MAT 190 - Precalculus	4	4	1
OR MAT 282 - Calculus II	4	4	1
(PHY 205 - General Physics I	4	3	3
OR PHY 281 - Physics I with Calculus)	4	3	3
Courses - Semester 3	Credits	Lecture	Lab
CET 240 - Hydraulics and Hydrology	4	3	3
CET 247 - Route Surveying and Design	3	2	3
CMT 234 - Cost Estimating/Planning	3	2	2
GIS 101 - Introduction to GIS	3	2	2
(MET 132 - Statics	3	3	1
OR CET 258 - Statics with Calculus)	3	3	1
Courses - Semester 4	Credits	Lecture	Lab
CET 236 - Soils	3	2	2
CET 244 - Principles of Site Development	4	3	3
(MET 242 - Strength of Materials	3	2	2

OR [CET 270 - Solid Mechanics with Calculus](#)) 3 3 1

Approved Electives

Group	Courses	Credits	Lecture	Lab
A	CLT 110 - Cross-Cultural Immersion	3	3	0
A	HIS 111 - U. S. History: Pre-Civil War	3	3	0
A	HIS 112 - U. S. History: Post-Civil War	3	3	0
A	ECO 111 - Macroeconomics	3	3	0
A	ECO 122 - Microeconomics	3	3	0
A	POL 111 - Political Science	3	3	0
A	PSY 121 - General Psychology	3	3	0
A	SOC 111 - Sociology	3	3	0
	SOC 103 - Sustainability and Society	3	3	
	SOC 104 - Human Geography	3	3	0

*To complete program requirements, you must pass the above courses and earn at least **67 credits**. The number of courses and credits required for graduation may be more depending on your need for developmental education courses and the elective choices you make (if electives are a part of the program). Some programs also have college-level courses that you must take if you do not score at a certain level on the College Placement Test. If this applies to your program, the courses are listed at the top of the sequence sheet before the first semester of the course list.*