



## Civil Engineering Technology

Associate in Science | Code: 26035 | 63 credits

CIP (1715020101)

**Effective Term: Fall 2024 (2247)**

The Civil Engineering Technology program is designed for those students who wish immediate job placement prior to or after graduation. This program also satisfies many of the civil engineering freshman and sophomore requirements for the Bachelor of Engineering Technology degree offered by certain universities. Consult your Civil Engineering advisor prior to registration.

### **GENERAL EDUCATION REQUIREMENTS (15.00 credits)**

#### **HUMANITIES (3.00 credits)**

ARH 1000	Art Appreciation	(3 credits)	
HUM 1020	Introduction to Humanities	(3 credits)	
LIT 2000	Introduction to Literature	(3 credits)	Prerequisite: ENC 1101
MUL 1010	Music Appreciation	(3 credits)	
PHI 2010	Introduction to Philosophy	(3 credits)	Prerequisite: ENC 1101
THE 2000	Theatre Appreciation	(3 credits)	

#### **MATHEMATICS (3.00 credits)**

MAC 1105	College Algebra	(3 credits)	Prerequisite: MAT 1033*
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♦Note: Students must seek advisement for proper mathematics course from discipline chairperson.

#### **NATURAL SCIENCE (3.00 credits)**

AST 1002	Descriptive Astronomy	(3 credits)
BSC 1005	General Education Biology	(3 credits)
CHM 1020	General Education Chemistry	(3 credits)
ESC 1000	General Education Earth Science	(3 credits)
EVR 1001	Introduction to Environmental Science	(3 credits)
GLY 1010	Physical Geology	(3 credits)
OCE 1001	Introduction to Oceanography	(3 credits)
PHY 1020	General Education Physics	(3 credits)

#### **SOCIAL SCIENCE (3.00 credits)**

AMH 2010	History of the US to 1877	(3 credits)
AMH 2020	History of the US since 1877	(3 credits)
POS 2041	American Federal Government	(3 credits)

#### **COMPUTER COMPETENCY**

Test type(s) needed:

Computer Competency Test (CCT)

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CGS 1060C	Introduction to Computer Technology & Applications
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### **MAJOR COURSE REQUIREMENTS (41.00 Credits)**

ETC 2450	Concrete Construction	(3 credits)	Prerequisite: ETG 2502
ETD 1110	Technical Drawing 1	(4 credits)	
ETD 1542	Structural Drafting	(4 credits)	Prerequisite: ETD 1110

ETG 2502	Statics	(3 credits)	Prerequisite: MAC 1105
ETG 2530C	Strength of Materials	(3 credits)	Prerequisite: ETG 2502 or Equivalent
MAC 1114	Trigonometry	(3 credits)	Prerequisite: MAC 1105 or MAC 1106
SUR 1101C	Surveying 1	(4 credits)	Prerequisites MAC1114 or MAC1147
SUR 1202C	Surveying 2	(4 credits)	Prerequisite: SUR 1101C
SUR 2301C	Topography & Mapping	(4 credits)	Departmental Permission
SUR 2400C	Land Surveying 1	(3 credits)	Prerequisite: SUR 1101C
SUR 2404C	Land Surveying 2	(3 credits)	
SUR 2462C	Subdivisions	(3 credits)	Prerequisite: EGS 1111C

**MAJOR COURSE ELECTIVE (7.00 Credits)**

EGN 2200	Computer Applications in Engineering	(3 credits)	Pre/Co-requisite MAC1114 or MAC1147
EGS 1111C	Engineering Graphics	(5 credits)	
EGS 1220C	Basic Computer Language	(2 credits)	
ETC 1250	Construction Materials	(3 credits)	
ETC 1930	Construction and Engineering	(1-3 credits)	
	Seminar 1		
ETC 2201	Design and Inspection Engineer	(3 credits)	
	Seminar 1		
ETC 2207	Computing and Estimating	(3 credits)	
ETC 2210C	Geotechnics and Soils	(4 credits)	
ETI 2121	Materials Testing	(3 credits)	Prerequisite: MAC 1105
ETM 1313C	Hydraulics and Pneumatics	(3 credits)	Prerequisite: MAC 1105
SUR 1001C	Construction Survey	(3 credits)	Prerequisite: MAC1114 or MAC 1147
SUR 1640C	Land Surveying Computations	(3 credits)	Prerequisite: MAC 1105 or 1140; Corequisite: MAC 1114
SUR 2330C	Photogrammetry 1	(3 credits)	