

PROGRAMS

CIVIL ENGINEERING TECHNOLOGY (A40140)

Engineering and Technology Pathway: These curriculums are designed to prepare students through the study and application of principles from mathematics, natural sciences, and technology and applied processes based on these subjects.

Course work includes mathematics, natural sciences, engineering sciences and technology.

Graduates should qualify to obtain occupations such as technical service providers, materials and technologies testing services, engineering technicians, construction technicians and managers, industrial and technology managers, or research technicians.

Civil Engineering Technology: A course of study that prepares students to use basic engineering principles and technical skills to carry out planning, documenting and supervising tasks in sustainable land development and public works and facilities projects. Includes instruction in the communication and computational skills required for materials testing, structural testing, field and laboratory testing, site analysis, estimating, project management, plan preparation, hydraulics, environmental technology, and surveying. Graduates should qualify for technician-level jobs with both public and private engineering, construction, and surveying agencies.

Associate in Applied Science Degree Program

		Course Hours Per Week		Semester Hours
First Semester (Fall)		Class	Lab	Credit
ACA-115	Success & Study Skills	0	2	1
BPR-130	Print Reading-Construction	3	0	3
CEG-210	Construction Mtls & Methods	2	3	3
EGR110				
EGR-150	Intro to Engineering	1	2	2
EGR-115	Intro to Technology	2	3	3
EGR-115A				
ENG-111	Writing and Inquiry	3	0	3
***	Technology Elective	1-3	0-2	2-3
	Credit Hours	12-14	10-12	17-18
Second Semester (Spring)				
CEG-111	Intro to Gis and Gnss	2	4	4
CEG-235	Project Management/Estimating	2	3	3
EGR-120	Eng and Design Graphics	2	2	3
ENG-112 or	Writing/Research in the Disc or			
ENG-114	Prof Research & Reporting	3	0	3
MAT***	MAT-121 or MAT-171	2-3	2	3-4

Credit Hours		Course Hours Per Week		Semester Hours
		11-12	11	16-17
Third Semester (Summer)				
EGR-251	Statics	2	2	3
SRV-110	Surveying I	2	6	4
***	Physics Elective	3	2-3	4
Credit Hours		7	10-11	11
Fourth Semester (Fall)				
CEG-211	Hydrology & Erosion Control	2	3	3
CIV-111	Soils and Foundations	2	4	4
SRV-111	Surveying II	2	6	4
***	Humanities/Fine Arts Elective	3	0	3
***	Directed Elective	0-3	2-30	3-4
Credit Hours		9-12	15-43	17-18
Fifth Semester (Spring)				
CEG-212	Intro to Environmental Tech	2	3	3
SRV-240	Topo/Site Surveying	2	6	4
***	Social/Beh Sciences Elective	3	0	3
***	Directed Elective	0-3	2-30	3
Credit Hours		7-10	11-39	13
Total Required Minimum Semester Hours Credit				74
Technology Electives:				
CIS-111	Basic PC Literacy	1	2	2
EGR-125	Appl Software for Tech	1	2	2
UAS-110	Intro to UAS Operations	3	0	3
UAS-115	Small UAS Certification	2	0	2
Physics Electives:				
PHY-131	Physics-Mechanics	3	2	4
PHY-151	College Physics I	3	2	4
PHY-251	General Physics I	3	3	4
Directed Electives:				
CIV-221	Steel and Timber Design	2	3	3
CIV-222	Reinforced Concrete	2	3	3
MAT-172	Precalculus Trigonometry	3	2	4
MAT-263	Brief Calculus	3	2	4
MAT-271	Calculus I	3	2	4
MAT-272	Calculus II	3	2	4
WBL-111	Work-Based Learning I	0	10	1
WBL-112	Work-Based Learning I	0	20	2

		Course Hours Per		Semester
		Week		Hours
WBL-113	Work-Based Learning I	0	30	3
WBL-121	Work-Based Learning II	0	10	1
WBL-122	Work-Based Learning II	0	20	2

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