

Diploma in Civil Engineering and Surveying

Overview

The primary objective of the Diploma Program of the Civil Engineering Technology curriculum is to introduce students to the employment opportunities in civil engineering technology.

The objective is fulfilled through the study and application of civil engineering technology courses. All courses in the diploma can be used in the Civil Engineering Technology Associate in Applied Science Degree program.

Program Description

Civil Engineering Technology Advanced Diploma

The Civil Engineering Technology program at SIUP is a three-year Advanced Diploma.

Students in the program will learn about municipal services, potable water systems, storm water systems /drainage design and waste water management. The program teaches students an understanding of construction techniques, construction layout, and electronic surveying and Global Positioning Systems applications.

Civil Engineering Technology students will have the opportunity to:

- acquire CAD, plan reading and visualization skills needed to create plans for today's modern infrastructure
- explore building and construction materials, project scheduling, estimating and management
- develop construction surveying skills, estimating, materials testing and inspection and geotechnical services
- design in steel, timber, masonry and concrete
- understand how structures work by learning the science of their materials

Career Opportunities

The Civil Engineering Technology Advanced Diploma program prepares students for long-lasting careers

Industries of Employment:

- Public and Private Sector
- Engineering Consulting
- General Contracting

- Construction Companies

Occupational Categories:

- Construction Supervisors
- Civil Engineering Technologists
- Surveying Technologists
- Project Managers

Curriculum

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Title	Class Hours	Lab Hours	Clinical Hours	Work Hours	Credit Hours
Semester I					
CAD A	3	0	0	0	3
Professional Research & Reporting	3	0	0	0	3
Algebra/Trigonometry I	2	2	0	0	3
Surveying I					4
Environmental Technology					3
Rafting Fundamentals & Standards					
Semester II					
Civil/Surveying CAD	1	6	0	0	3
Construction Estimating	2	3	0	0	3
Project Management	2	3	0	0	3
C Programming	2	3	0	0	3
Construction Material	2	3	0	0	3
Applied-Mechanics	3	2	0	0	4
Semester III					
Transport Technology	2	6	0	0	4
Surveying II	2	6	0	0	4

	Structural Design I					3
	GeoTech I					4
	Engineering Law					3
	Professional Elective					3
Semester IV						
	Highway Technology I					4
	Statistics for Civil Eng					3
	Structural Design II					4
	Construction Management					4
	Technical report					2
	Highway technology II					4
Total Semester Hour Credits						
Students must select 3 Professional Electives:						
Semester V- VI						
	SUD Drainage systems					
	Hydrology					
	Pavement Design					
	Geology/Tech II					
	Transport Design III					
	Co-op Work Experience (Civil)					35
	Work Experience					35
	Work Experience					35