

CIVIL ENGINEERING TECHNOLOGY: DIPLOMA

Program Mission

Working in partnership with industry, the Diploma in Civil Engineering Technology program provides quality education that prepares highly skilled technicians capable of serving the community and fulfilling personal ambitions with excellence. Graduates may choose to continue into the additional two years of the program to become innovative engineers.

Program Goal

The Program Educational Objectives of the Diploma in Civil Engineering Technology Program are to provide graduates:

1. With the technical knowledge and skills required by the industry to professionally develop, operate, and maintain projects in areas of the built environment and global infrastructures.
2. Equipped for lifelong learning, professional development, and adhering to international Code of Ethics.
3. Capable to engage in sustainable activities through community and work-based opportunities.
4. With team building and communication skills.

Program Learning Outcomes

The Program Learning Outcomes of the Diploma in Civil Engineering Technology Program are to provide graduates:

1. An ability to apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve well-defined engineering problems appropriate to the Civil Engineering Technology.
2. An ability to design solutions for well-defined technical problems and assist with the engineering design of systems, components, or processes appropriate to the Civil Engineering Technology.
3. An ability to apply written, oral, and graphical communication in well-defined technical and non-technical environments; and an ability to identify and use appropriate technical literature.
4. An ability to conduct standard tests, measurements, and experiments and to analyze and interpret the results.
5. An ability to function effectively as a member of a technical team.

Requirements

Completion Requirements

Diploma in Civil Engineering Technology

Students must successfully complete a minimum of 74 credits, including:

Code	Title	Credit Hours
	Program Core Courses	44
	Mathematics and Science Courses	12
	General Studies course	18
	Total Credit Hours	74

Code	Title	Credit Hours
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Civil Engineering Core Courses

Required Credits: 44

CVE 2001	Applied Drafting and CAD: Civil	1
CVE 2013	CAD tools in Civil Engineering	3
CVE 2103	Site Surveying	3
CVE 2113	Quantity Surveying and Estimating	3
CVE 2203	Engineering Mechanics	3
CVE 2213	Strength of Materials	3
CVE 2303	Soil Mechanics	3
CVE 2403	Fluid Mechanics and Hydraulics	3
CVE 2603	Construction Materials	3
CVE 2613	Civil Engineering Construction	3
CVE 2903	Sophomore Design Project	3
CVE 3203	Structural Analysis	3
EGN 1133	Design Thinking in Technology	3
EGN 1001	Engineering Workshop	1
EGN 2806	Work Placement I	6

Mathematics and Science Required Courses

Required Credits: 12

CHM 1103	Engineering Chemistry	3
MTH 1203	Calculus I	3
MTH 2103	Calculus II	3
PHY 1203	Physics II	3

General Studies

Required Credits: 18

English, Arabic or other Languages

Required Credits: 6

LSC 1103 and AES 1013

Information Technology and Mathematics

Required Credits: 6

ICT 2013 and MTH 1113

The Natural Sciences

Required Credits: 3

PHY 1103

The Social or Behavioral Sciences

Required Credits: 3

LSS 1003

Description	Data
Total Required Credits	74
Maximum Duration of Study	3 years
Minimum Duration of Study	2 years
Cost Recovery Program	No
Program Code	DCVET
Major Code	CVE

Ideal Study Plan

Recommended Sequence of Study

Year 1		Credit Hours
Semester 1		
EGN 1133	Design Thinking in Technology	3
LSC 1103	Professional Communication and Reporting	3
LSS 1003	Life and Future Skills	3
MTH 1203	Calculus I	3
PHY 1103	Physics I	3
Credit Hours		15
Semester 2		
AES 1013	Arabic Communications	3
CHM 1103	Engineering Chemistry	3
CVE 2603	Construction Materials	3
EGN 1001	Engineering Workshop	1
MTH 1113	Statistics for Engineering	3
PHY 1203	Physics II	3
Credit Hours		16
Summer		
CVE 2203	Engineering Mechanics	3
MTH 2103	Calculus II	3
Credit Hours		6
Year 2		
Semester 3		
CVE 2001	Applied Drafting and CAD: Civil	1
CVE 2103	Site Surveying	3
CVE 2213	Strength of Materials	3
CVE 2403	Fluid Mechanics and Hydraulics	3
CVE 2613	Civil Engineering Construction	3
ICT 2013	Computational Thinking and Coding	3
Credit Hours		16
Semester 4		
CVE 2013	CAD tools in Civil Engineering	3
CVE 2113	Quantity Surveying and Estimating	3
CVE 2303	Soil Mechanics	3
CVE 2903	Sophomore Design Project	3
CVE 3203	Structural Analysis	3
Credit Hours		15
Summer		
EGN 2806	Work Placement I	6
Credit Hours		6
Total Credit Hours		74