

Civil Engineering Technology

The field of civil design and construction plays a central role in the economic viability of many industries and the province as a whole. The Civil field includes such areas as residential, commercial, and industrial buildings; harbours, wharves, and breakwater improvements; airports, roads, and other transportation facilities; and municipal infrastructure.

Natural resource development projects (hydropower, oil and gas, mineral processing, etc.) will continue to create substantial employment opportunities for Civil Engineering Technology graduates. The training program will enable the graduate to play an important role in the professional team which is responsible for the translation of ideas into the finished product. The program will ensure that the graduates understand the need of the construction industry for cost effective and efficient planning of projects from concept to completion.

ACCREDITATION

This program is accredited by the Canadian Technology Accreditation Board under the mandate of the Canadian Council of Technicians and Technologists.

The academic credentials of graduates of accredited technology programs are recognized internationally by the signatories of the Sydney Accord.

OBJECTIVES

The main objective of the program is to produce graduates who can function in the Civil Engineering environment at the technologist level. Some of the tasks which a graduate will be able to perform are:

1. Estimate construction costs.
2. Supervise construction projects for contractors, consultants or owners.
3. Inspect construction projects for various agencies.
4. Assist engineers in structural design in wood, concrete, and steel.
5. Perform standardized testing of concrete, soils, aggregates and asphalt.
6. Administrate and manage the construction of civil works, including scheduling.
7. Provide advice on environmental considerations.
8. Perform construction surveying.

EMPLOYMENT OPPORTUNITIES

The student, upon graduation, may find employment with contractors, consultants, house builders, manufacturers, suppliers, municipalities, provincial and federal governments and their agencies, and many others involved in such projects as the design of off-shore and on-shore structures and facilities, testing and inspection of structural components, estimation, sales, construction surveying, and project management.

Graduates with two years of appropriate work experience may receive the designation of Professional Technologist (P. Tech).

DIPLOMA

- Three years
- September start
- Corner Brook and Ridge Road (St. John's) Campuses

COURSES

CODE	TITLE	Hrs/wk		
Semester 1 and 2 - Refer to Engineering Technology (First Year)				
Semester 3 (Technical Intersession I)				
DR1211	Engineering Drawing	2	2	8
SU1200	Plane Surveying	3	2	9
MA2100	Mathematics	5	10	0
Semester 4				
CF2500	Strength of Materials	4	3	2
CF2700	Materials & Testing I	4	3	2
SU1210	Construction Surveying	4	3	2
CB2420	Construction Methods	4	3	2
MA1670	Statistics	4	4	1
HR2130	Industrial Relations	3	3	0
Semester 5				
BU2110	Building Systems & Codes	4	3	2
CF2501	Strength of Materials II	4	3	2
CM2300	Report Writing	2	2	0
CA2800	Soil Mechanics I	4	3	2
DR1210	CADD Drawings	4	3	2
EC1720	Construction Economics	3	3	0
WA1100	Hydraulics	4	3	2
Semester 6 (Technical Intersession II)				
CF2701	Materials & Testing II	4	6	4
LW1600	Construction Law	3	6	0
FT1320	Survey Camp (Corner Brook)	3	1	9
FT1330	Construction Camp (Ridge Road)	2	0	9
Semester 7				
CA2100	Structural Design	4	3	2
CG2100	Urban Planning (Interim)	4	4	0
CA2801	Soil Mechanics	4	3	2
CG2340	Construction Estimating and Planning I	4	3	2
EN3100	Environmental Engineering	4	3	2
WA1200	Hydrology	4	3	2
PR2200	Technological Thesis	0	1	0
Semester 8				
CA2101	Structural Design	4	3	2
CA2500	Highway Design	4	3	2
CA2300	Urban Services	4	3	2
CG2341	Construction Estimating and Planning II	4	3	2
EN2420	Environmental Management	4	4	0
PR2201	Technological Thesis	3	0	3
Select one of the following:				
CG3100	Construction Management (Ridge Road)	3	3	0
CA2650	Marine Construction (Corner Brook)	4	4	0
Semester 9				
OJ1400	Work Exposure (Post Semester Corner Brook)	3 wks		

