

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 Intercession I)	Cr	Le	La
CB2420 Construction Methods	4	4	0
DR1220 Engineering Drawing	2	1	4
SU1200 Plane Surveying	3	1	5

The Course and Lab hours per week are based on a 15 week semester. In intercession, the Course and Lab hours will be adjusted to reflect the shorter semester length. Refer to course outline.

Semester 4	Cr	Le	La
BU2120 Building Codes & Services	4	4	0
CF2530 Strength of Materials I	4	3	2
CF2710 Materials & Testing I	4	3	2
CM2800 Oral/Written Communication Skills	3	3	0
MA2100 Mathematics	5	5	0
SU1210 Construction Surveying	4	3	3

Semester 5	Cr	Le	La
CA2500 Highway Technology	4	3	2
CF2531 Strength of Materials II	4	3	2
CF2711 Materials & Testing II	4	3	2
DR1240 CADD Drawings	2	1	4
MA1530 Statistics	2	2	1
WA1160 Fluid Mechanics	4	4	0
WA1230 Hydrology	2	2	0

Semester 6 (Technical Intercession II)	Cr	Le	La
FT1340 Civil Engineering Technology Camp	2	0	5
WC1460 Work Term	5	0	0

The Course and Lab hours per week are based on a 15 week semester. In intercession, the Course and Lab hours will be adjusted to reflect the shorter semester length. Refer to course outline.

Civil Engineering Technology Camp

Learners in Civil Engineering Technology (Co-op) will be required to complete FT1340 during Semester 6 prior to beginning their work term.

Safety Certification

Learners in Civil Engineering Technology (Co-op) will be required to complete certifications in the following training: Standard First Aid/Heart Start and WHMIS during the second year of studies.

Semester 7	Cr	Le	La
CA2110 Structures I	4	3	2
CG2320 Urban Development I	4	3	2
CA2810 Soils & Foundations I	4	3	2
CG2330 Planning & Estimating I	4	3	2
EN3110 Environmental Engineering	4	4	0
LW1600 Construction Law	3	3	0
PR2250 Capstone Project I (Seminar)	P/F	1	0

Semester 8	Cr	Le	La
CA2111 Structures II	4	3	2
CA2321 Urban Development II	4	3	2
CA2811 Soils & Foundations II	4	4	0
CG2331 Planning & Estimating II	4	3	2
EC1750 Construction Economics	3	3	0
HR2130 Industrial Relations	3	3	0
PR2251 Capstone Project II	4	3	0

Semester 9	Cr	Le	La
OJ1400 Work Exposure (Post Semester Corner Brook)	3	wks	

ENGINEERING TECHNOLOGY

Civil Engineering Technology (Co-op)

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, 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 (Co-op) graduates. The Civil Engineering Technology (Co-op) program will enable graduates 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 for, and have the skills to contribute to, the cost effective and efficient planning of construction 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. Analyze the structural reactions of engineering work.
2. Participate in the scheduling of civil engineering projects and monitor the work.
3. Assist in planning, designing, inspecting, supervising, and constructing civil engineering projects.
4. Plan and design municipal infrastructure projects.
5. Assist with designing, inspecting and troubleshooting of transportation infrastructure.
6. Design, calculate and test asphalt and concrete mixes to industry standards and specifications.
7. Carry out engineering survey and construction layouts using conventional survey instruments, GIS, and GPS systems.

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).

Note:

Learners will also be required to complete a number of non-credit co-op education seminars throughout the program (resume writing, job search skills and interview preparation).

