

DIPLOMA

- Three years Co-op
- September start
- Ridge Road Campus (St. John's)

COURSES

CODE **TITLE** **Hrs/wk**
Semester 1 and 2 - Refer to Engineering Technology (First Year)

| Semester 3 (Technical Intersession I) | | Cr | Le | La |
|----------------------------------------------|--------------------------------|-----------|-----------|-----------|
| MP2140 | Circuit Analysis | 4 | 6 | 4 |
| CP2600 | Computer Hardware Fundamentals | 4 | 6 | 4 |
| CP1250 | Programming Fundamentals | 4 | 6 | 6 |

| Semester 4 | | Cr | Le | La |
|-------------------|-----------------------------|-----------|-----------|-----------|
| CP1340 | Object Oriented Programming | 4 | 3 | 2 |
| DP3430 | Data Communications | 4 | 3 | 2 |
| AE2320 | Analog Electronics | 5 | 4 | 3 |
| MA2710 | Discrete Mathematics | 5 | 5 | 0 |
| DP1110 | Digital Electronics | 4 | 3 | 2 |
| CI1100 | Electronic Instruments | 3 | 2 | 2 |

| Semester 5 | | Cr | Le | La |
|-------------------|--------------------------------|-----------|-----------|-----------|
| CP2530 | Data Structures and Algorithms | 4 | 3 | 2 |
| CE3400 | LANS | 4 | 3 | 3 |
| CM2300 | Report Writing | 2 | 2 | 0 |
| MA2100 | Mathematics | 5 | 5 | 0 |
| AE2321 | Analog Electronics | 5 | 4 | 3 |
| DP2410 | Digital/Microprocessors | 4 | 3 | 2 |

| Semester 6 (Technical Intersession II) | | Cr | Le | La |
|-----------------------------------------------|------------------------|-----------|-----------|-----------|
| WC1700 | Work Term I and Report | 5 | 0 | 0 |

| Semester 7 | | Cr | Le | La |
|-------------------|----------------------------------|-----------|-----------|-----------|
| DP3310 | Microprocessors | 4 | 3 | 3 |
| CE3630 | VOIP | 5 | 4 | 3 |
| PR2630 | Technical Thesis (Seminar) | 0 | 0 | 3 |
| DP3200 | Embedded Controller Applications | 4 | 3 | 2 |
| CP3520 | Databases | 4 | 3 | 2 |
| EC1700 | Engineering Economics | 2 | 2 | 0 |
| CP3480 | Software Engineering | 4 | 4 | 0 |

| Semester 8 (Technical Intersession III) | | Cr | Le | La |
|------------------------------------------------|--------------|-----------|-----------|-----------|
| WC1701 | Work Term II | 5 | 0 | 0 |

| Semester 9 | | Cr | Le | La |
|-------------------|----------------------------|-----------|-----------|-----------|
| CT2520 | Operating Systems | 4 | 4 | 0 |
| CP3620 | Web Programming | 4 | 3 | 3 |
| AE3110 | Analog Integrated Circuits | 4 | 3 | 3 |
| CG3400 | Engineering Management | 3 | 3 | 0 |
| PR2631 | Technical Thesis | 3 | 0 | 3 |
| CE3430 | Network Cabling | 4 | 3 | 3 |

ENGINEERING TECHNOLOGY

Software Engineering Technology (Co-op)

The Software Engineering Technology (Co-op) program is designed to provide the graduates with the skills and knowledge to work in the field of software engineering technology. Graduates will have a sound background in electronics as well as specialized skills in the systems analysis and design of software solutions for integrating computer technology into customer and industrial products and would be the technology partner to the computer scientist/software engineer.

Note: This program may not be suitable for applicants who do not have normal colour perception.

ACCREDITATION:

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

OBJECTIVES

1. To develop an awareness of and concern for good safety practices and procedures in the workplace.
2. To provide a basic knowledge of modern equipment, instrumentation techniques and electronic devices, associated with the general field of electronics.
3. To develop a high level of skill and knowledge in the field of software engineering technology.

CURRICULUM

General Education consisting of Communication Skills (oral and written), Mathematics, Physics, Chemistry, Electrotechnology, Engineering Graphics, Technology Awareness and Student Success.

Extensive training in the theory and principles of electronics.

Specialized training in the field of software engineering technology.

Laboratory and field experience in the application of all facets of electronics and software engineering.

EMPLOYMENT OPPORTUNITIES

The graduate from the program will be a technologist who specializes in integrating computer technology into consumer and industrial products, who find employment with hi-tech companies utilizing computers in new and innovative ways. Employers have included NewTel, Newtech, Consolidated Technologies, Instrumar, Rutter Technologies, and Xwave in both onshore and offshore environments. Opportunities may also exist in sales and service.

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

