

Instrumentation and Control Engineering Technician



Program Location:	Peterborough
Program Code:	INT
Co-ordinator:	George Seto
Credential:	Ontario College Diploma
Start Date:	September 04, 2012
Tuition Fees:	\$1,864.70 per semester. Tuition and fees subject to change.

Instrumentation technicians commission, install, calibrate, maintain and repair complex measurement and control systems used in a variety of process control applications.

Program Highlights

As an Instrumentation and Control Technician your career will be technology-based with an applied edge.

This Ontario College Diploma program will prepare you for a hands-on, exciting and rewarding career in emerging engineering and scientific fields. You will also learn required skills in communications, mathematics, science, and critical thinking to enhance your knowledge and skills for application in the workplace.

Work Experience

The program features an optional, paid 15-week co-op following semester 2. This allows you to build on your academic education, experience the work environment and make valuable contacts in one of the many diverse industries requiring instrumentation technician professionals. In addition to tuition and fees, students pay a co-op fee (approximately \$468.00) for administrative costs associated with the co-op placement.

Career Opportunities

Graduates will obtain employment in industries that use automated or controlled technology systems, such as are found in the manufacturing, petro-chemical, power generation and the nuclear industries.

Minimum Admission Requirements

Ontario Secondary School Diploma (or equivalent) with courses from the College (C), and Open (O) level including:

- 2 College (C) English courses (Grade 11 or Grade 12)
- 1 College (C) Math course (Grade 11 or Grade 12)

When (C) is the minimum course level for admission, (U) or (U/C) courses are also accepted.

Mature Students

If you are 19 years of age or older before classes start, and you do not possess an OSSD, you can write the Canadian Adult Achievement Test to assess your eligibility for admission. Additional testing or academic upgrading may be necessary to meet specific course requirements for entry to this program.

Curriculum for Instrumentation and Control Engineering Technician

Semester 1

Code	Course Name	Hours
ELCT 90	Drafting Applications and AutoCAD	45
ELCT 84	Electricity	60
ELCT 100	Instrumentation Fundamentals	60
COMP 345	Introductory Computing	45
MATH 122	Mathematics I	45
COMM 32	Technical Communications	37
ORGB 2	Career Essentials	45

Semester 2

Code	Course Name	Hours
ELCT 87	Alternating Current Theory	60
SCIE 140	Chemistry for Technology	60
ELCT 82	Electronics	60
ELCT 101	Instrumentation I	60
MATH 123	Mathematics II	30
ELCT 116	Measurements	45
ORGB 13	Developing Effective Teams	45

Semester 3

Code	Course Name	Hours
AUTM 70	CAD/Process Graphics	60
ELCT 102	Instrumentation II	60
ELCT 89	Law and Ethics in the Electrical Sector	30
MATH 124	Mathematics III	30
SCIE 141	Physics for Instrumentation	45
ELCT 88	Power Electronics and Theory	60
COMP 460	Technical Programming	45

Semester 4

Code	Course Name	Hours
MECH 99	Hydraulics and Fluid Mechanics	45
ELCT 103	Instrumentation Networks	60
ELCT 20	Managing Technical Projects	45
ELCT 104	Process Control	60
ELCT 95	Programmable Logic Controllers	75
GENED	General Education Elective	

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