

Mathematics Test	100 (minimum score 60%)
Language and Communications Test	100 (minimum score 60%)
Personal Profile	100
Aptitude Test	100 (minimum score 60%)
TOTAL	400

BOOKS, SUPPLIES & MANDATORY FIELD TRIPS

First/Second/Third Semester--\$400 (estimated)
 Fourth/Fifth Semester--\$250 (estimated)
 Sixth/Seventh Semester--\$250 (estimated)

DRESS CODE

A Dress Code is established; specific details are available upon request.

PROGRAM OF STUDY

	<u>Fall</u>	<u>Winter</u>	<u>Summer</u>
<u>Year 1</u>	Semester I Academics	Semester II Academics	Semester III Private Pilot Flight Training
<u>Year 2</u>	Semester IV Academics -Commercial Flight Training-	Semester V Academics	
<u>Year 3</u>	Semester VI Academics -Multi Engine Endorsement- -Instrument Rating-	Semester VII Academics	

Semester 1

ENGI20-3	Communication Skills
FLT100-4	Intro to Flight
MCH110-4	Applied Mechanics
MTH613-4	Technical Mathematic
PHY125-4	Physics
REC100-1	Recreat & Phys Train

Semester 2

AVT100-5	Aeronautics
CET110-3	Intro Computer App
ECN106-3	Economics
MCH111-4	Applied Mechanics
MTH626-4	Technical Mathematic
REC110-1	Recreat & Phys Train

Semester 3

AFT105-12	Air Flight Training
AVT110-6	Aeronautics
MED100-0	First Aid & Safety

Semester 4

AFT115-9	Air Flight Training
AVT200-4	Aeronautics
ELR104-3	Electrical Fundament
ENG210-3	Technical Reporting
MTH654-4	Technical Mathematic
REC200-1	Recreat & Phys Train

Semester 5

AFT205-9	Air Flight Training
AVT205-4	Aeronautics
MCH219-4	Mechanics of Fluids
MCH221-4	Hydraulics Systems
MTH655-4	Statistics
REC210-1	Recreat & Phys Train

Semester 6

AFT225-9	Air Flight Training
AVT210-7	Aerodynamics
AVT225-3	Meteorology
AVT226-4	Nav & Instr Proced
AVT230-4	Engines & Airframes
AVT280-3	Safety & Human Fact
REC300-1	Recreat & Phys Train

Semester 7

AFT235-9	Air Flight Training
AVT235-2	Instr Proc& Flt Oper
AVT240-2	Instruct Techniques
AVT270-1	Aircraft Systems
ENG400-3	Advanced Tech Report
REC325-1	Recreat & Phys Train

**CIVIL ENGINEERING TECHNICIAN
CO-OPERATIVE EDUCATION**

PROGRAM (2 years - 4 semesters)

The Civil Engineering Technician Program is designed to give graduates the basic skills and knowledge needed to enter the Heavy Construction and related fields. Graduates of the program should be able to carry out field surveying projects as well as prepare and finalize resulting maps and plans. They will also be able to assume responsibility for construction layout, supervision and inspection, as well as design and construct municipal installations, highways, pipe lines and hydro electric developments.

Computer Aided Drafting and Design techniques are studied at the senior level utilizing microcomputer based drafting systems.

Major areas of study include surveying, drafting, structural design, mechanics, quantity surveying, mathematics and physics.

CAREER PATHS

Graduates of the Civil Engineering Technician Program can seek employment as draftsmen inspectors and general engineering assistants. Areas of employment may include the construction industry, municipal, provincial and federal agencies, and industrial engineering and consulting firms.

MINIMUM ACADEMIC REQUIREMENTS

Ontario Secondary School Diploma with Grade 12 Technical Mathematics at the general level or Mature Student Status.

RECOMMENDATIONS

English and Technical Mathematics at the advanced level are strongly recommended.

PROGRAM OF STUDY

Co-operative Education

- HDG104-1 Career Development
- CWV100-3 Co-op Placement I
- CWV200-3 Co-op Placement II

	<u>Fall</u>	<u>Winter</u>	<u>Spr./Summer</u>
<u>Year 1</u>	Semester I	Semester II	Co-op
<u>Year 2</u>	Semester III	Semester IV	Co-op
<u>Year 3</u>	Semester V	Semester VI	Co-op

* Co-op schedule may change

The Civil Technology Program provides an opportunity for Technician graduates to continue studies on a part-time basis. Courses are offered in the evening through the Department of Continuing Education.

Semester 1

- ARC110-5 Drafting & Design
- CET110-3 Intro Computer App
- ENG120-3 Communication Skills
- MCH100-3 Applied Mechanics
- MTH119-4 Technical Math
- PHY105-3 Physics
- SUR101-4 Surveying

Semester 2

- ARC115-4 Drafting & Design
- ARC133-3 Constr Materials
- ENG210-3 Technical Reporting
- MCH200-3 Applied Mechanics
- MTH128-4 Mathematics
- SUR235-3 Surveying
- SUR242-3 Quantity Surveying

Semester 3

- ARC101-4 Bldg&Const.Estimation
- ARC217-3 Soil Mechanics
- CAD120-3 Introduction to CAD
- MCH212-4 Mech of Materials
- MTH254-4 Mathematics
- SUR201-4 Surveying
- WTR330-5 Hydraulics

Semester 4

- ARC213-4 Struc Des & Detail
- ARC219-4 Struct Engineering

- ARC232-4 Heavy Constr
- CIV110-4 Mun. Admin & Service
- CIV215-3 Project Manag & Law
- ENG315-3 Adv Read & Writing
- MTH270-4 Statistics

**CIVIL ENGINEERING TECHNOLOGY
CO-OPERATIVE EDUCATION**

PROGRAM (Third Year Option - 2 semesters)

The Civil Engineering Technology Program is a "Thru-way" program. It is designed to expand the knowledge and applied skills of the Civil Engineering Technician. After completing 2 years or 4 semesters, graduate Technicians may continue studies at the Technology level. Design systems, facilities and processes are studied with an emphasis on computer application.

Upon completion of the program, the graduate will be able to translate design data into appropriate drawings, specifications, schedules and contracts. Graduate Technologists will be able to take samples, conduct field and laboratory tests, record data and compare data with established standards. The ability to use computers to perform inventory layout and/or map civil engineering works is emphasized.

For all "Thru-way" programs which offer diplomas at the completion of year one or two and have an additional year of studies, program offerings are available only if there is sufficient enrolment.

CAREER PATHS

Graduates from this program will be able to seek careers with consulting engineering companies, general contractors, building product manufacturers, municipal governments, highway departments and Federal public works departments.

MINIMUM ACADEMIC REQUIREMENTS

Completion of the Civil Engineering Technician Program or equivalent.

BOOKS, SUPPLIES & MANDATORY FIELD TRIPS

Fifth/Sixth Semester--\$400 (estimated)

PROGRAM OF STUDY

Co-operative Education

- CWV300-3 Co-op Placement III

	<u>Fall</u>	<u>Winter</u>	<u>Spr./Summer</u>
<u>Year 1</u>	Semester I	Semester II	Co-op
<u>Year 2</u>	Semester III	Semester IV	Co-op
<u>Year 3</u>	Semester V	Semester VI	Co-op

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CIV305
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MTH20
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CIV318
CIV319
WTR2:

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