

## Science & Technology Programs

# Information Technology & Applied Systems

### 2-year Diploma Program

Fee Category: I

## The Program

The Information Technology and Applied Systems (ITAS) program prepares students for careers in the design, installation, operation, and administration of network and Internet-based information systems. The program combines rigorous theoretical and technical education with hands-on, project-based learning. Using the most up-to-date curriculum, the ITAS program develops a student's technical skills, as well as teamwork, communications, and project management skills to satisfy industry demands for well-rounded, highly employable technology graduates.

ITAS is offered as a one-year certificate, or two-year diploma program. The program consists of two 4-month terms per year, plus a 1-month practicum at the end of each academic year.

The first year of the program provides students with a solid foundation in computer hardware, operating systems, networking, and web authoring/programming. Students are eligible to receive a Certificate in Computer Systems & Networking upon successful completion of the foundation year.

In the second year of the program, students install, configure, and administrate a wide variety of computer & network services such as DNS, email, web, database, and security services, in a mix of Linux and Windows environments. Students hone their web-programming skills by developing leading-edge database-driven web applications using such technologies as XHTML, XML, JavaScript, AJAX, PHP, and MySQL. Second year graduates receive a diploma in Information Technology and Applied Systems.

## Credit for IT Certifications

Some applicants may already hold industry certifications such as CompTIA's A+®®, Security+®®, Microsoft's MCSA, MCSE, Adobe/Macromedia's MMCP, or others. ITAS gives credit for selected IT certifications towards an ITAS diploma. Contact the Department Chair for more information (see below).

## Career Opportunities

Graduates of the ITAS program will be qualified to work for:

- Computer retailers and systems integrators,
- Internet service providers,
- Network design, installation, and support companies,
- Web development and web-hosting companies,
- Private and public educational institutes and training centres,
- Most companies that use computers, computer networks, and the Internet to carry out their business operations.

# Admission Requirements

- General admission requirements apply.
- Letter of application describing reasons for wanting to take the program (500 - 1,000 words). Include name and contact information, including email. A handout is available outlining the required content of application letter - see the Admissions Department, or email the Department Chair (see below).
- Successful completion of assessment tests, including computer skills.
- Interview.

## ***Recommendations for Admission***

- Grade 12 English and Math.
- Two years previous experience with computers, including experience installing and maintaining operating systems, and using office productivity software.
- ICT 11 & 12 (High School Info Tech).

## ***Notes on Admission***

- This program is open to full-time students only.
- Interview will only be granted after all other admission requirements are met.
- Students must supply their own computer system--see Fees and Special Expenses.
- Consideration will be given to mature students without Grade 12; however, they must complete all prerequisites or equivalents.

# Program Continuation/Completion Requirements

Students should expect to spend 20 hours a week in the classroom, and an additional 15 - 20 hours per week on homework and assignments. Students must pass all courses and obtain a "C+" average in each term to be eligible to continue in the program and/or to receive an ITAS credential.

## Start Date and Application Deadline

- Applications are accepted between November 15 and March 31.
- Most students will start in September. There will normally be a limited number of seats for students wishing to enter the program in the Spring term (January). Other restrictions will apply. Please contact the Department Chair for details (see below).

## Fees & Special Expenses

Students must supply their own laptop or desktop computer system capable of running current versions of Microsoft Windows operating system. Systems should have a minimum 2.0Ghz processor, 1GByte RAM, and 100GByte free disk space. In addition to the computer system, students should allow approximately \$500 per semester for books and supplies.

*All fees are subject to change without prior notice.*

## Need More Information?

**A free Information Session for prospective students will be held on Wednesday February 13, 2008 @ 7:30 pm, Building 180 Room 134.**

To request an information package, or to contact the Department Chair, email us at: [info@itas.ca](mailto:info@itas.ca), or call: **Mark Dutchuk, 250-740-6116**.

## Program Outline

<b>YEAR 1</b>	<b>Credits</b>
ITAS 152T (Introduction to Digital Computer Concepts)	3
ITAS 155T (Computer Hardware Essentials)	3
ITAS 167T (Applied Operating Systems)	3
ITAS 171T (Social Aspects of the Internet)	3
ITAS 175T (Local Area Networks)	3
ITAS 181T (Applied Network Operating Systems)	3
ITAS 185T (Introduction to Programming Concepts)	3
ITAS 186T (Internet Programming)	3
ITAS 191T (Graphic Design for Internet Publication)	3
ITAS 192T (Internet Authoring)	3
ITAS 195T (Practicum)	4
<b>Total Credits</b>	<b>34</b>

<b>YEAR 2</b>	<b>Credits</b>
ITAS 216T (Hardware and Topologies)	3
ITAS 218T (Security and Administration)	3
ITAS 233T (Network Administration)	3
ITAS 255T (Internet Scripting I)	3
ITAS 257T (Internet Server Management I)	3
ITAS 264T (Technology and Human Management)	3
ITAS 274T (Internet Scripting II)	3
ITAS 278T (Internet Server Management II)	3
ITAS 280T (Advanced Wide Area Technologies)	3
ITAS 288T (Database Design and Administration)	3
ITAS 290T (Practicum Level II)	4
<b>Total Credits</b>	<b>34</b>

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