

## Science & Technology Programs

# Information Technology & Applied Systems

- **2-Year Diploma Program**
- **Program Fees: Domestic Students, International Students**
- **Apply for Admission**

## 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 the first 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 database-driven web applications using such technologies as HTML, XML/JSON, JavaScript, AJAX, PHP, and MySQL. Students are also introduced to mobile application development and cloud computing technologies. 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:

- Internet service providers,
- Network design, installation, and support companies,
- Web development and web-hosting companies,
- Private and public educational institutes and training centres,
- Computer retailers and systems integrators,
- 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).
- Interview.

## ***Recommendations for Admission***

- One of Principles of Mathematics 12, Applications of Mathematics 12, or Foundations of Mathematics 12.
- 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 Program Fees.
- 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

The program starts in September and a limited intake in January. Applications are accepted between October 3 and April 15.

# Need More Information?

For more information please contact the Department Chair by emailing [info@itas.ca](mailto:info@itas.ca), or for information about registering and late applications please contact Melanie Cousins at (250) 753-3245, Local 2282, or by emailing: [Melanie.Cousins@viu.ca](mailto:Melanie.Cousins@viu.ca)

# Program Outline

<b>YEAR 1</b>	<b>Credits</b>
ITAS 155 - (Introduction to Computer Hardware)	4
ITAS 164 - (Information Technology Project Management Essentials)	4
ITAS 167 - (Applied Operating Systems)	4
ITAS 175 - (Network Infrastructure Fundamentals)	4
ITAS 181 - (Applied Network Operating Systems)	4
ITAS 185 - (Introduction to Programming Concepts)	4
ITAS 186 - (Internet Programming I)	4
ITAS 191 - (Web Authoring)	4
ITAS 195T - (Practicum)	4
<b>Total Credits</b>	<b>36</b>

<b>YEAR 2</b>	<b>Credits</b>
ITAS 218 - (Information Technology Security)	4
ITAS 233 - (Windows Server Management)	4
ITAS 255 - (Internet Programming II)	4
ITAS 257 - (Linux Server Management I)	4
ITAS 274 - (Internet Programming III)	4
ITAS 278 - (Linux Server Management II)	4
ITAS 280 - (Advanced Wide Area Technologies)	4
ITAS 288 - (Database Administration and Design)	4
<b>Total Credits</b>	<b>32</b>

*All program courses must be successfully completed before certificates will be issued.*

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