

DATABASE ADMINISTRATION CONCENTRATION

Is this concentration for you?

As the information needs of an organization grow in size and complexity, database administrators take on the critical role of helping to manage data that supports business operations and decisions. In their roles, they know how to install, maintain, and manage the database management systems that protect and organize key information.

Throughout the concentration, you gain a broad understanding of the IT field and develop in-depth skills in database design, SQL programming, security, and database administration. Concepts and syntax knowledge are developed and then demonstrated through hands-on work, with a focus on industry standards. An emphasis is placed on project management methodology. You also practice business analysis through applied casework.

This option is available at the following NSCC Campuses:

IT Campus

Halifax

Employment opportunities:

The Database Administration concentration prepares you to begin your career in Database Administration (DBMA), Systems Analysis and Design, System and Network Administration, or general IT work.

Courses :

Additional information is available through your Academic Chair or Faculty Advisor.

DATABASE APPLICATION PROGRAMMING CONCENTRATION

Is this concentration for you?

This concentration provides a background in object-oriented programming and scripting languages, with applied focus in transactional SQL programming, full exploration of the usage of data layer objects within an object-oriented platform, and SQL and database application tuning.

This option is available at the following NSCC Campuses:

IT Campus

Halifax

Employment opportunities:

The Database Application Programming concentration prepares you to begin your career in Database Application Development, Object-oriented Programming, Systems Analysis and Design, or general IT work.

Courses :

Additional information is available through your Academic Chair or Faculty Advisor.

PROGRAMMING CONCENTRATION

Is this concentration for you?

Programming requires a detail-oriented, logical mindset mixed with a sense of creativity in both its design and programming aspects. It appeals to individuals who like puzzles, problem-solving, and innovation, and would like to improve information systems to deliver a better user experience, enhance program and network security using software design, or help organizations operate more efficiently. There is growing recognition from all sectors of industry of the vital contribution that computer software has on an operation's success. Well-designed applications and well-written code improve operational efficiency, commercial performance, and end-user experience.

As a programmer, you must be capable of working in a team environment, liaising with non-technical users, as well as creating software solutions, independently. Your ability to "think outside of the box" enables you to analyze problems, design software solutions, and write code that is effective, efficient, and creative, while following established design and coding standards.

This option is available at the following NSCC Campuses:

COGS
IT Campus

Lawrencetown
Halifax

Employment opportunities:

When you graduate, you're ready to begin your career as a Programmer (Application Developer), Software Tester, or Quality Control Specialist.

Courses :

Additional information is available through your Academic Chair or Faculty Advisor.

SYSTEMS MANAGEMENT/NETWORKING CONCENTRATION

Is this concentration for you?

In this concentration, you take courses relating to the design, implementation, and management of the core technologies that support Information Communication Technology (ICT). These include: UNIX/Linux and Windows network operating systems; Local Area Network (LAN) and Wide Area Network (WAN); security implementations to protect data and users, and Systems Analysis and Design (SAD).

You learn in an environment that reflects industry standards, using design, implementation, and management methodologies, as well as various applications used in the ICT field.

Working in a collaborative environment, you also have the opportunity to apply your SAD skills to projects, and develop effective communication skills required to be a valuable member of an IT team.

This option is available at the following NSCC Campuses:

COGS
Burrige Campus
IT Campus
Marconi Campus
Truro Campus

Lawencetown
Yarmouth
Halifax
Sydney
Truro

Employment opportunities:

ICT Specialists who understand systems integration and management are in high demand. Graduates have joined existing organizations and others have started their own support businesses. Typical occupations include: Coordinator/Manager, Systems/Network Integrator, Network Security Coordinator, Network Administrator, Network Support Technician, Network Designer, or Technical Support Representative.

Courses :

Additional information is available through your Academic Chair or Faculty Advisor.

WEB PROGRAMMING CONCENTRATION

Is this concentration for you?

Organizations of all sizes need experts who can create, develop, and maintain websites and web applications which support business services and operations. In addition, with the growing use of cloud computing, more and more business applications are finding a home on the web.

Web programming encompasses various non-design aspects of developing websites and web-based applications, and ranges from developing a simple static page to complex data-driven applications, e-commerce, and social network applications.

This concentration focuses on building your programming skills to form a solid foundation in current and emerging web-based technologies. You develop skills and knowledge in web application development, user-interface design and usability, web server administration and security, and mobile application development. Plus, you learn to combine these skills to create effective solutions.

This option is available at the following NSCC Campuses:

IT Campus
Marconi Campus
Truro Campus

Halifax
Sydney
Truro

Employment opportunities:

When you graduate, you are ready to start your career as a Web Application Developer, Mobile Application Developer, or Web Server Administrator.

Courses :

Additional information is available through your Academic Chair or Faculty Advisor.