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# EDGE UP – Cyber Security for Today’s World

*Length:* Approximately 17 weeks

SAIT offers a 17-week full-time program in *Cyber Security for Today’s World* in association with Calgary Economic Development, with support from Future Skills Canada.

Graduates of this program will develop skills to identify and interpret information security threats and risks in a business context. They will learn to review, analyze and evaluate incoming cybersecurity threats that impact strategy and operations. Graduates of this program will receive a SAIT Certificate of Achievement.

The ideal candidate for the Cyber Security for Today’s World program has a previous post-secondary diploma or degree. You recognize the critical nature of cybersecurity and are intrigued by the ever-changing ways that both corporate and personal information continue to be compromised. You have a strong ethical standard and a curious mind. A previous technical discipline or basic literacies in python programming and 'C' language programming is an asset.

## Learning Objectives

- Develop skills to identify and interpret information security threats and risks in a business context.
- Adapt industry-standard frameworks to propose practical solutions to mitigate risks.
- Learn to investigate cybersecurity events or crimes related to IT systems, networks and digital assets.
- Learn the strategies and tools to prepare you to manage cybersecurity threats that can occur in the ever-changing cybersecurity threat landscape.
- Explore current cyber security environment, security laws and ethical practices.

## Topics of Instruction

- Networking Protocols
- Programming Essentials
- Operating Systems
- Components of:
  - Security Tools
  - Risk Identification and Management
  - Vulnerability, Threats and Attacks
  - Strategy and Fundamentals of Cyber Warfare
  - Global Information Security Acumen

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## Computers and Laptops - Requirements

This is a bring your own device program with custom hardware and software requirement. The recommended hardware and software requirements are:

- Processor: i7
- RAM: 16 GB or greater
- Storage: 512 GB SSD or greater
- Video card: onboard integrated
- Screen size: 15" or greater
- Screen resolution: 1920 x 1080 or greater
- OS: Windows 10 Pro 64-bit

## Is this the right fit for me?

This program requires a commitment of both time and energy. Students who experience success are those who make their education a priority throughout the program and are open to new learning experiences. We find there is a direct correlation between the time and energy invested to the amount of success achieved. Learners with strong time-management, adaptability, and discipline have a greater propensity to succeed. Remaining focused and diligent with course work is important for success in completing the program.