



MANITOBA INSTITUTE OF  
TRADES AND TECHNOLOGY



## Network Security Certificate

**DURATION** 544  
Hours of Study

Part-Time

**TUITION**  
\$8,885 (approximation)

Tuition fees are paid for at time of course registration and vary according to individual course. Please check the PACE website for details.

**STARTING**  
Fall, Winter or Spring Terms

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# Network Security Certificate

The Network Security Certificate program is a joint programming initiative between The Professional, Applied & Continuing Education (PACE) and Manitoba Institute of Trades and Technology.

Graduates will have an in- depth knowledge of, and training in various protocols, network standards, designs and security solutions. This program actively integrates the dynamics of MITT's Regional CISCO Academy with the PACE's cryptography and security schematics.

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## Getting Started

### • To attend a class:

Register online

<http://pace.uwinnipegcourses.ca/register-now>

or submit a completed Registration Form to the PACE Registration Office\*

### • To enroll in a program:

Submit a completed Application for Admission Form to the PACE Registration Office\*

\* Courses begin at various times throughout the year. It's never too late to get started. Check our website for the latest offerings and application forms.

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## Objectives

As computer hackers continually develop new ways to gain access into our networks, business and industries combat these attacks with the aid of skilled network security specialists. Graduates from the Network Security Certificate program will acquire the IT security skills to help mitigate threats to organizations and gain marketable skills in these high-growth employment sectors.

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## Outcomes

On completion of this program students should be able to:

- Understand network theory and Internet security applications.
  - Organize and design security policies.
  - Protect and construct secure networks.
  - Detect and counterattack possible threats.
  - Understand network hardware components.
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## Tuition

\$8,588 – Approximate cost of program

Tuition fees must be paid for at the time of registration and vary according to individual courses.

Please check our website for specific details.

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## Program Duration

Admitted students have up to five years to complete the program requirements and may choose to fast-track their studies by taking more than one course per term.

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## Career Opportunities

- Security Specialist
  - Network Administrator
  - Internet Server Administrator
  - Network Analyst
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## Additional Comments

The Network Security Certificate is offered only during the daytime at both the University of Winnipeg campus and the Manitoba Institution of Trades and Technology Campus. Application for the program is done through the University of Winnipeg, PACE and courses are registered and paid for at the school in which the course is offered.

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## Program Requirements

Some courses are taken at Manitoba Institute of Training and Technology (MITT) and must be registered for at MITT.

### Required Courses: (544 Hours)

- Introduction to Open Source Server Administration (30hrs) **DT**
- Applied Open Source Server Administration (36hrs) **DT**
- Introduction to Windows Server Administration (30hrs) **DT**
- Applied Windows Server Administration (36hrs) **DT**
- Information Assurance and Security Level 1: Security and Risk Management (CISSP Domain 1) (24hrs) **DT**
- Information Assurance and Security Level 2: Asset Security (CISSP Domain 2) (24hrs) **DT**
- Information Assurance and Security Level 3: Security Engineering (CISSP Domain 3) (24hrs) **DT**
- Information Assurance and Security Level 4: Identity and Access Management (CISSP Domain 5) (24hrs) **DT**
- Project Management Fundamentals (36hrs)
- Cisco CCENT Level 1 (70hrs) **MITT**
- Cisco CCENT Level 2 (70hrs) **MITT**
- Cisco CCENT Level 3 (70hrs) **MITT**
- Cisco CCENT Level 4 (70hrs) **MITT**

Registration for **MITT** courses is done at MITT (not PACE)

**DT** Available during the day only  
(9:00am-4:00pm)

**OL** Available online

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