

**ISEC 2076****Security Mechanisms****Course Weight:** 60.00**Course Description**

The course will examine security authentication methods and how they are used to help secure environments. Subjects to be reviewed include physical security, access methods such as biometric and smart card technologies, two factor authentication and identity and access management.

**Rationale**

Access to the physical environment where information system assets are housed remains the ultimate security vulnerability. In many cases, physical access to devices can enable bypass of software-based protections. Physical access not only makes compromise and theft possible but also enables willful and accidental damage and the destruction of assets. Any complete security audit requires an examination of the design and operation physical access controls. A security analyst must be familiar with best practices in perimeter defense, access control technologies and monitoring. This course will introduce students to topics ranging from defensive zones, access control systems, area access monitoring technologies, proper logging and log analysis.

**Prerequisite(s):**

None

**Corequisite(s):**

None

**Learning Outcomes**

Learners are required to successfully complete each course outcome. In keeping with NSCC's approach to portfolio learning, learners will have demonstrated the ability to:

1. Implement acceptable practices in layered physical security control systems.
2. Program security controls.
3. Analyze logs to detect anomalies and insure proper management.
4. Develop access control lists to examine role-based security and security classifications.

**Grading**

Grade with pass of 60.

**Other Course Notes**

It is the responsibility of the student to review and understand all Nova Scotia Community College policies, most specifically the Student Code of Conduct, Academic Integrity, Student Appeals, Use of Copyright Materials, and Academic Accommodation policies.

Policies directly applicable to students are referenced in the student handbook. The policies and procedures can be found on the College website: [http://nsc.ca/current\\_students](http://nsc.ca/current_students)

If you have questions about policies and/or procedures, you are encouraged to ask Faculty, your Academic Chair or Staff at Student Services.

**Workplan**

A workplan for this course is attached and will be reviewed by your faculty member (s) within the first week of class study.