

NETW 1700**Introduction to Networking and Security****Course Weight:** 60.00**Course Description**

This course introduces the models, components, functions, architecture, and structure of computer networks. The principles and Internet Protocol (IP) addressing and the fundamentals of Ethernet concepts, media and operations are introduced to provide a foundation for future courses. By the end of this course, learners will be able to build simple Local Area Networks, perform basic configurations for routers and switches, and implement IP addressing schemes.

Rationale

Networks connect computer systems in an increasingly “online” world, from mobile devices to laptops, internet servers to home game consoles. This course provides learners with a common set of internetworking skills and knowledge required by all IT professionals.

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. Apply layered communication standards to the management and configuration of networking devices (Open Systems Interconnection (OSI) and Transmission Control Protocol/Internet Protocol (TCP/IP)).
2. Build a small office/home office (SOHO) network using a single network appliance.
3. Investigate elements of networking infrastructure.

Grading

The pass for this course is 60%.

Required Supplies

See instructor for details.

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

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.