

Welcome!

NET2000 – Intermediate Networking
(incorporating Cisco's ENSA course)

Course Professor: Michael Anderson

Lectures:

Mon	1 – 3pm	T123 (On the hour, not :05 after!)
Wed	2 – 3pm	T123 (On the hour, not :05 after!)

Labs:

A1	Mon	8 – 10am	T108
A2	Wed	3 – 5pm	T108
A3	Wed	8 – 10am	T108
A4	Mon	6 – 8 pm	T108

My Contact Info:

Office hours: Please see DailySchedule posted on course site
<http://michaelanderson.ca/>

Email: Michael.Anderson@AlgonquinCollege.com

Course Objectives:

- ◆ To provide a solid understanding dynamic routing protocols, using OSPF as an example.
- ◆ To provide a solid understanding of addressing families and techniques, including IPv6 and NAT. To increase your understanding of network security, using ACLs.
- ◆ To increase your knowledge and skill of networking equipment, using Cisco enterprise-grade equipment.
- ◆ To continue your preparation for obtaining industry certifications such as CCNA.

For additional info on this course, please see the official **course outline**, as posted on the course web site. We'll look at a few items, including scheduling, textbooks and other required resources, and marks allocation.

Course Prerequisite

You must have obtained a passing grade in NET1006.

Expectations: Yours, Mine, Employer's

There will be many adjustments with the transition from purely online learning back to fully in-person. It's a worthwhile investment of time to examine some of these.

Introductions

- Introduce myself, especially *Why do I teach?*
 - *Have great confidence in me, but don't trust me*
... Be sure to check it out for yourself!
 - *My focus is on learning, not on marks*
... This answers a lot of questions
 - *TL;DR = F (guaranteed)*
... I can guarantee you won't pass the course without reading the textbook
 - *I would like to know everything about everything, but I don't*
... Bring your work experience to the table and please share it during lectures.

Bug Hunter Bonus

- Full credit for question, to 1st student to identify a mistake (by email timestamp)
- Finding any email generated with the "From" or "Reply To" address resembling andersm@algonquin.brightspace.com because that address is incorrect and does *NOT* work!!!

Required Resources

- Course web site: <http://michaelanderson.ca/22F-NET2000-010/>
- Cisco NetAcad account: course materials & chapter tests.
- Required textbook:
 - ✓ CCNAv7: Enterprise Networking, Security, and Automation (Companion Guide) by Cisco Networking Academy; Cisco Press, Jul 16, 2020; ISBN-13: 978-0-13-663432-4 (new or save \$\$ with a used copy)

Time Commitment

- Expect to spend at least 5 hrs/wk on this course *outside the regularly scheduled lectures and labs*. (See program flow chart.)
- Never stay stuck on a problem for longer than 20-30 mins; you can't afford it! Ask a classmate or email the Prof for some ideas & tips of where you should be able to find the answer.

Week 1: Assigned Readings & Lab work

One-time to get started

1. Confirm you can still access your Cisco NetAcad account.
 - Same account used for NET1002, NET1006, and future BIT-NET courses
 - Contact the Prof if you are unable to access it after spending at least 20-30 mins trying to access it.
2. Lab 1 **PreLab: Due Fri Sep 9 @ 11:59pm**

Confirm that you've got the Professor's contact info and looked at some key items in the course outline.

- Pre-labs are normally due before your lab session (see below for week 2!)
- For week 2: due date will be before your week 2 lab session.

Regular weekly items: Lab work and readings

3. Lab 1 **InLab**: Review of subnetting (IPv4) from NET1002
 - Lab activity consists of parts 1-3 of the subnetting quizzes
 - help available during this week's regular lab sessions (8-10am, 3-5pm)
4. Lab 1 **PostLab**: Due @ **11:59pm the day before your next lab session**
 - For week 1, part 4 of the subnetting quizzes is the post-lab activity
5. Lab 2 **Pre-lab**: Key aspect is OSPF review; due **before your next lab session**
6. Readings: due before lecture next Mon @ 1pm (textbook or NetAcad courses)
 - Network Design (Ch 11): all of sections 11.1 and 11.2 = 22 pages
 - Review IPv6 (Ch 8, SRWE): sections 8.1-8.3 = 16 pages

Expect a quiz every week eg. at beginning of the lecture (don't be late!!)

Schedule for Regular Weekly Due Dates

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	A1/A4 Lab		In-class Q			
			A2/A3 Lab			
A1/A4 post lab due		A2/A3 post lab due	In-class Q			

This schedule was designed to (hopefully) mesh with due dates for other courses. But due to schedule changes in 2022, please let me know if this conflicts badly with any of your other courses.

New Material

- In The News Item: Roger's nation-wide outage this summer (Fri Jul 8th)
- **What's an NQA certificate?**
- Special "Door prize" give-away (Why the emphasis on textbook; lab time?)
- Review of highlights from NET1002 and NET1006

Post Script

Here's a photo of the whiteboard from the first lecture. There was some content that I added / responded with on the other two white boards (not shown), but I believe the important aspects of the feedback from students is accurately captured here.

Special thanks to your newly elected class rep Mahmoud Sakalla <saka0021@algonquinlive.com> for helping with the photo. - Michael

Ref: <https://www.cbc.ca/news/canada/first-person-pandemic-school-1.6564259>

