



CAMOSUN COLLEGE
Trades and Technology
Electronics and Computer Engineering

ELEN 134
Introduction to Networks

Winter 2020
COURSE OUTLINE

The calendar description is available on the web @ Camosun.ca

1. Instructor Information

(a) Instructor	Gurbinder Dhade
(b) Office hours	Posted outside office
(c) Location	CBA 122B
(d) Phone	250 370 4450 Alternative: _____
(e) E-mail	dhadeg@camosun.bc.ca
(f) Website	_____

2. Intended Learning Outcomes

This first course in the 3-course CCNA series introduces the student to local area networks, internetworking and the associated concepts. Students will configure hardware and network resources required to create a functional LAN. The OSI model will be used extensively as a tool to discuss the various concepts such as IP addressing and TCP/IP. The students will explore the Cisco Command Line Interface as they learn how to program network switches and routers.

Upon successful completion of this course a student will be able to:

- identify the various physical and logical topologies of LANs in common use today;
- implement various LAN configurations using the Cisco CLI;
- recall common networking models including TCP/IP, OSI and IEEE;
- explain and apply IP addressing to network devices; and
- apply basic TCP/IP troubleshooting tools and diagnostic software.

3. Required Materials

- Access to Cisco CCNA Intro to Networks 7.0 – Online Curriculum. → www.netacad.com

4. Course Content

Introduction to Networking Course

1. Networking Today
2. Basic Switch and End Device Configuration
3. Protocols and Models
4. Physical Layer
5. Number Systems
6. Data Link Layer
7. Ethernet Switching
8. Network Layer
9. Address Resolution
10. Basic Router Configuration
11. IPv4 Addressing
12. IPv6 Addressing
13. ICMP
14. Transport Layer
15. Application Layer
16. Network Security Fundamentals
17. Build a Small Network

Holidays

Family Day & Reading Break

- Feb 17 - Feb 21 - College Closed (Week 7)

5. Basis of Student Assessment (Weighting)

(a) Lab Activities	=	20%
(b) Packet Tracer Assignments	=	10%
(c) Module Group Exams	=	20%
(d) Mid-Term		
Skills Exam (Practical)	=	10%
(e) Final Exam		
Skills Exam (Practical)	=	30%
Final Exam (Theoretical)	=	10%
	=	100%

Upload the assignments to the correct location by **Friday 11:59pm** of the current week.

There will be one Packet Tracer Skills based assessment during the course.

Module Group Exams will consist of the Cisco Chapter Exams and will be completed during classes.

1. A grade of 50% or better is required in all assessment items above to be able to pass the course.
2. A grade of 60% or better is required in all assessment items above to qualify as a prerequisite.
3. Labs are due at the end of the lab period. No late materials will be accepted past the end of the lab. An early start is recommended.
4. No opportunity will be available to write missed module exam.
5. Attendance and completion of all lab material is mandatory to pass the course.
6. A mark of 0% will be given for any late submissions.

Laboratory evaluation will be based on the following breakdown:

½ mark is given for attendance, cleanliness, deportment.

½ mark for completion of lab activities on time.

6. Grading System

Standard Grading System (GPA)

Competency Based Grading System

7. Recommended Materials or Services to Assist Students to Succeed Throughout the Course

LEARNING SUPPORT AND SERVICES FOR STUDENTS

There are a variety of services available for students to assist them throughout their learning. This information is available in the College Calendar, Student Services or the College web site at <http://www.camosun.bc.ca>

STUDENT CONDUCT POLICY

There is a Student Conduct Policy. It is the student's responsibility to become familiar with the content of this policy. The policy is available in each School Administration Office, Registration, and on the College web site in the Policy Section.

<http://www.camosun.bc.ca/policies/policies.html>

A. **GRADING SYSTEMS** <http://www.camosun.bc.ca/policies/policies.php>

The following two grading systems are used at Camosun College:

1. **Standard Grading System (GPA)**

Percentage	Grade	Description	Grade Point Equivalency
90-100	A+		9
85-89	A		8
80-84	A-		7
77-79	B+		6
73-76	B		5
70-72	B-		4
65-69	C+		3
60-64	C		2
50-59	D		1
0-49	F	Minimum level has not been achieved.	0

2. **Competency Based Grading System (Non GPA)**

This grading system is based on satisfactory acquisition of defined skills or successful completion of the course learning outcomes

Grade	Description
COM	The student has met the goals, criteria, or competencies established for this course, practicum or field placement.
DST	The student has met and exceeded, above and beyond expectation, the goals, criteria, or competencies established for this course, practicum or field placement.
NC	The student has not met the goals, criteria or competencies established for this course, practicum or field placement.

B. **Temporary Grades**

Temporary grades are assigned for specific circumstances and will convert to a final grade according to the grading scheme being used in the course. See Grading Policy at <http://www.camosun.bc.ca/policies/E-1.5.pdf> for information on conversion to final grades, and for additional information on student record and transcript notations.

Temporary Grade	Description
I	<i>Incomplete:</i> A temporary grade assigned when the requirements of a course have not yet been completed due to hardship or extenuating circumstances, such as illness or death in the family.
IP	<i>In progress:</i> A temporary grade assigned for courses that are designed to have an anticipated enrollment that extends beyond one term. No more than two IP grades will be assigned for the same course.
CW	<i>Compulsory Withdrawal:</i> A temporary grade assigned by a Dean when an instructor, after documenting the prescriptive strategies applied and consulting with peers, deems that a student is unsafe to self or others and must be removed from the lab, practicum, worksite, or field placement.