

Grade 11 - Computer Networking TEN3M1

<p>Course Description:</p> <p>Computer technology course includes aspects of computer hardware and software; computer interfacing, programming, analog and digital electronics; and robotics with the emphasis and application to networking.</p> <p>Network technicians, technologists, and engineers work in every sector of society, in careers ranging from helpdesk support to network architect.</p> <p>This course examines computer networks and computer systems and its role in controlling and providing digital communication. Students will assemble computers and networks by installing and configuring appropriate hardware and software. Students will develop knowledge and skills in electronics, robotics, programming of network devices, and will build networks that use computer programs and network interfaces to control device excess and traffic. Students will develop an awareness of related environmental and societal issues, and will learn about programs leading to careers in computer networking.</p> <p>Current computer networking course prepare students for successful study at college or university, as well as gives an industry certifications to enter into the workplace.</p>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Level:</td> <td style="padding: 2px;">Mixed (University/College)</td> </tr> <tr> <td style="padding: 2px;">Credit Value:</td> <td style="padding: 2px;">1.0</td> </tr> <tr> <td style="padding: 2px;">Pre-requisite:</td> <td style="padding: 2px;">None</td> </tr> <tr> <td style="padding: 2px;">Department:</td> <td style="padding: 2px;">Technology</td> </tr> <tr> <td style="padding: 2px;">Course Fees:</td> <td style="padding: 2px;">None</td> </tr> </table>	Level:	Mixed (University/College)	Credit Value:	1.0	Pre-requisite:	None	Department:	Technology	Course Fees:	None
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<p>Textbooks & Resources:</p> <ul style="list-style-type: none"> Growing Success: Assessment, Evaluation and Reporting in Ontario Schools The Ontario Curriculum, Grades 11 and 12: Technological Education, 2009 (revised) All resources can be found at http://cisco.netacad.net. There is no text-book for this course. Examples, exercises, assignments and other electronic resources will be placed online if they are not on the main Cisco website. Students will need a binder for notes and handouts, and a USB drive for saving backup copies of their work or use cloud storage.

<p>Course Evaluation: Student Evaluation consists of three components...</p>									
<p>1) Learning Skills & Work Habits: Students are evaluated on 6 Learning Skills & Work Habits. They are:</p> <ul style="list-style-type: none"> Responsibility Organization Independent Work Collaboration Initiative Self-Regulation 	<p>These six attributes are evaluated on a scale of Excellent (E), Good (G), Satisfactory (S) & Needs Improvement (N) and reported on the report card. They are not included in the course mark, unless specified in the curriculum expectations.</p>								
<p>2) Term Mark (Assessment of Learning): Student performance standards for knowledge and skills are described in the curriculum Achievement Chart. The curriculum is assessed in four categories:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">• Knowledge and Understanding</td> <td style="text-align: right; padding: 2px;">25%</td> </tr> <tr> <td style="padding: 2px;">• Thinking and Inquiry</td> <td style="text-align: right; padding: 2px;">25%</td> </tr> <tr> <td style="padding: 2px;">• Communication</td> <td style="text-align: right; padding: 2px;">10%</td> </tr> <tr> <td style="padding: 2px;">• Application</td> <td style="text-align: right; padding: 2px;">40%</td> </tr> </table>	• Knowledge and Understanding	25%	• Thinking and Inquiry	25%	• Communication	10%	• Application	40%	<p>Evaluation of these four categories generates the term mark. The term mark accounts for 70% of the final mark.</p> <p>It is the student's responsibility to submit evidence of learning.</p>
• Knowledge and Understanding	25%								
• Thinking and Inquiry	25%								
• Communication	10%								
• Application	40%								
<p>3) Final Evaluation (Assessment of Learning): The final evaluation, administered at or towards the end of the course is based on the evidence shown to the right. The final evaluation accounts for 30% of the final mark.</p>	<p>The final evaluation consists of:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Semester 1 Final Lab</td> <td style="text-align: right; padding: 2px;">3%</td> </tr> <tr> <td style="padding: 2px;">Semester 1 Final Exam</td> <td style="text-align: right; padding: 2px;">9%</td> </tr> <tr> <td style="padding: 2px;">Semester 2 Final Lab</td> <td style="text-align: right; padding: 2px;">15%</td> </tr> <tr> <td style="padding: 2px;">Semester 2 Final Exam</td> <td style="text-align: right; padding: 2px;">3%</td> </tr> </table>	Semester 1 Final Lab	3%	Semester 1 Final Exam	9%	Semester 2 Final Lab	15%	Semester 2 Final Exam	3%
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<p>Final Mark = 70% Term Mark + 30% Final Evaluation</p>									
<p>For a detailed description on Course Evaluation, see "How Did I Get That Mark!" at www.satec.on.ca</p>									
<p>Course Conduct Policies: See Student Agenda.</p>									

Please retain this page in the front of your notebook for future reference.



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Course Outline:

Unit	Description	Approximate Length	Major Unit Evaluation
1	Chapter 1: Exploring the Network Chapter 2: Configuring a Network Operating System Chapter 3: Network Protocols and Communications	2-3 weeks	Hands on lab Quizzies Unit Test
2	Chapter 4: Network Access Chapter 5: Ethernet Chapter 6: Network Layer	2-4 weeks	Hands on lab Quizzies Unit Test
3	Chapter 7: Transport Layer Chapter 8: IP Addressing Chapter 9: Subnetting IP Networks	2-3 weeks	Hands on lab Quizzies Unit Test
4	Chapter 10: Application Layer Chapter 11: It's a Network Semester 1 Final Exam and Final Hands on Lab	2-3 weeks	Sem. 1 Hands on lab Sem. 1 Exam Quizzies
5	Chapter 1: Routing Concepts Chapter 2: Static Routing Chapter 3: Dynamic Routing	2-3 weeks	Hands on lab Quizzies Unit Test
6	Chapter 4: Switched Networks Chapter 5: Switch Configurations Chapter 6: VLANs	2-4 weeks	Hands on lab Quizzies Unit Test
7	Chapter 7: Access Control Lists Chapter 8: DHCP Chapter 9: NAT for IPv4	2-4 weeks	Hands on lab Quizzies Unit Test
8	Chapter 10: Device Discovery, Management, and Maintenance Semester 2 Final Exam and Final Hands on Lab	2 weeks	Sem. 2 Hands on lab Sem. 2 Exam Quizzies

Note: The order the units are delivered may change due to student needs and resources available during the course.

General Information:

Your teachers can be located in IT2 and IT3 or by email.

CCNA Routing and Switching: Introduction to Networks
- Industry recognized certificate

CCNA Exploration: Routing and Switching Essentials
- Industry recognized certificate

This course meets ICT SHSM program requirements.

