

# Computer Networking TEN3M1

<p><b>Course Description:</b>                  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.                  Network technicians, technologists, and engineers work in every sector of society, in careers ranging from helpdesk support to network architect.                  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. 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>	<p><b>Level:</b> Mixed (University/College)  <b>Credit Value:</b> 1.0  <b>Pre-requisite:</b> None  <b>Department:</b> Technology  <b>Course Fees:</b> None</p>
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<p><b>Textbooks &amp; Resources:</b></p> <ul style="list-style-type: none"> <li>• Growing Success: Assessment, Evaluation and Reporting in Ontario Schools</li> <li>• The Ontario Curriculum Grade 11 and 12 Technological Education 2009 (revised)</li> <li>• All resources can be found at <a href="http://cisco.netacad.net">http://cisco.netacad.net</a>. 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 memory for saving backup copies of their work.</li> </ul>
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<p><b>Course Evaluation:</b> Student Evaluation consists of three components...</p>									
<p><b>1) Learning Skills &amp; Work Habits:</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;">                 Students are evaluated on 6 Learning Skills &amp; Work Habits. The 6 essential skills are:                 <ul style="list-style-type: none"> <li>• Responsibility</li> <li>• Organization</li> <li>• Independent Work</li> <li>• Collaboration</li> <li>• Initiative</li> <li>• Self-Regulation</li> </ul> </td> <td style="width: 50%; padding: 5px; vertical-align: top;">                 These six attributes are evaluated on a scale of Excellent (E), Good (G), Satisfactory (S) &amp; Needs Improvement (N) and reported on the report card. They are not included in the course mark, unless specified in the curriculum expectations             </td> </tr> </table>		Students are evaluated on 6 Learning Skills & Work Habits. The 6 essential skills are: <ul style="list-style-type: none"> <li>• Responsibility</li> <li>• Organization</li> <li>• Independent Work</li> <li>• Collaboration</li> <li>• Initiative</li> <li>• Self-Regulation</li> </ul>	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						
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<p><b>Final Mark = 100% Term Mark</b></p>									
<p>For a detailed description on Course Evaluation, see “How Did I Get That Mark!” at <a href="http://www.satec.on.ca">www.satec.on.ca</a></p>									

**Course Conduct Policies:** See Student Agenda.

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



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## Computer Networking TEN3M1

**Course Outline:**

Unit	Description	Approximate Length	Unit Evaluation
{ 1 }	Module 1-3: Basic Network Connectivity and Communications	{ 1-2 weeks }	{ Hands on lab Quizzies Unit Test }
{ 2 }	Module 4-7: Ethernet Concepts	{ 1-2 weeks }	{ Hands on lab Quizzies Unit Test }
{ 3 }	Module 8-10: Communicating Between Networks	{ 1-2 weeks }	{ Hands on lab Quizzies Unit Test }
{ 4 }	Module 11-13: IP Addressing	{ 1-2 weeks }	{ Hands on lab Quizzies Unit Test }
{ 5 }	Module 14-15: Network Application Communications	{ 1-2 weeks }	{ Hands on lab Quizzies Unit Test }
{ 6 }	Module 16-17: Building and Securing a Small Network ITN Final exam and Final Lab	{ 1-2 weeks }	{ Hands on lab Quizzies Unit Test }
{ 7 }	Module 1-4: Switching Concepts, VLANs, and Inter VLAN Routing	{ 1-2 weeks }	{ Hands on lab Quizzies Unit Test }
{ 8 }	Module 5-6: Redundant Networks SRWE Final Lab 1	{ 1-2 weeks }	{ Hands on lab Quizzies Unit Test }
{ 9 }	{ }	{ }	{ }

Note: Order 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.

