

Grade 12 - Computer Engineering Technology TEJ4M1

<p>Course Description:</p> <p>This course extends students' understanding of computer systems and computer interfacing with external devices. Students will assemble computer systems by installing and configuring appropriate hardware and software, and will learn more about fundamental concepts of electronics, robotics, programming, and networks.</p> <p>Students will examine related environmental and societal issues, and will explore postsecondary pathways leading to careers in computer technology.</p> <p>Current computer engineering courses prepare students for successful study at college or university, as well as gives an industry certifications to enter into the workplace.</p>	<p>Level: Mixed (University/College)</p> <p>Credit Value: 1.0</p> <p>Pre-requisite: None</p> <p>Department: Technology</p> <p>Course Fees: None</p>
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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 CISCO 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 memory for saving backup copies of their work. StampWorks by Jon Williams. Electronic version of this text can be found at http://www.parallax.com
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<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> <ul style="list-style-type: none"> 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>				
<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="margin-left: 20px;"> <tr> <td>Independent Study Unit</td> <td style="text-align: right;">10 %</td> </tr> <tr> <td>Exam</td> <td style="text-align: right;">20 %</td> </tr> </table>	Independent Study Unit	10 %	Exam	20 %
Independent Study Unit	10 %				
Exam	20 %				
<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.



**Scarborough Academy for Technology,
Environment & Computers @ WA Porter CI**

40 Fairfax Crescent, Scarborough, Ontario, M1L 1Z9
Phone: (416) 396-3365 Fax: (416) 396-3371

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Course Outline:

Unit	Description	Approximate Length	Major Unit Evaluation
1	Assembly: CPU Architecture Internal Memory Assembly Programming	2-3 weeks	Hands on lab Quizzes Unit Test
2	Integrated Circuits: Decoders & Encoders Latches Flip-Flops Design of Integrated Circuits	2-3 weeks	Hands on lab Quizzes Unit Test
3	StampWorks: Advanced Programming in PBasic LED Displays LCD Screens Sound Effects Shift Registers	3-4 weeks	Hands on lab Quizzes Unit Test
4	Programming in C#: Variables and Constants Selection & Repetition Input & Output Object Oriented Programming	4-5 weeks	Hands on lab Quizzes Unit Test
5	Robotics: VEX Components Design vs. Build Programming in RobotC Testing	3-4 weeks	Hands on lab ISU

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

General Information:

Your Teacher can be contacted in person in IT2 or via email.

This course meets ICT SHSM program requirements.

