

Introduction to Computer Studies, Grade 10 ICS201

<p>Course Description:</p> <p>This course introduces students to computer programming. Students will plan and write simple computer programmes by applying fundamental programming concepts. They will also learn:</p> <ul style="list-style-type: none"> -how to create clear and maintainable internal documentation;-how to manage a computer by studying hardware configurations and software -selection, operating system functions, networking and safe computing practices; -how to investigate the social impact of computer technologies -how to develop an understanding of environmental and ethical issues related to the use of computers. 	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: none;">Level:</td> <td style="border: none;">Open</td> </tr> <tr> <td style="border: none;">Credit Value:</td> <td style="border: none;">1.0</td> </tr> <tr> <td style="border: none;">Pre-requisite:</td> <td style="border: none;">None</td> </tr> <tr> <td style="border: none;">Department:</td> <td style="border: none;">Technology</td> </tr> <tr> <td style="border: none;">Course Fees:</td> <td style="border: none;">None</td> </tr> </table>	Level:	Open	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 10 to 12: Computer Studies, 2008 (revised) • Resource Book: An Introduction to Programming Using Microsoft Visual Basic 2008, Lawrenceville Press, 2010
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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. The 6 essential skills are:</p> <ul style="list-style-type: none"> <li style="width: 50%;">• Responsibility <li style="width: 50%;">• Collaboration <li style="width: 50%;">• Organization <li style="width: 50%;">• Initiative <li style="width: 50%;">• Independent Work <li style="width: 50%;">• 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="width: 80%;">• Knowledge Understanding</td> <td style="width: 20%; text-align: right;">14%</td> </tr> <tr> <td>• Thinking and Inquiry</td> <td style="text-align: right;">14%</td> </tr> <tr> <td>• Communication</td> <td style="text-align: right;">14%</td> </tr> <tr> <td>• Application</td> <td style="text-align: right;">28%</td> </tr> </table>	• Knowledge Understanding	14%	• Thinking and Inquiry	14%	• Communication	14%	• Application	28%	<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 students responsibility for submitting evidence of Learning.</p>
• Knowledge Understanding	14%								
• Thinking and Inquiry	14%								
• Communication	14%								
• Application	28%								
<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="width: 80%;">Exam</td> <td style="width: 20%; text-align: right;">30 %</td> </tr> </table>	Exam	30 %						
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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>									

Course Conduct Policies: See Student Agenda.

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



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<p>c. Controlling Program Flow with Decision Structures</p> <ul style="list-style-type: none"> - The If...Then Statement - Comparison Operators - The Select case Statement - Using random numbers - Writing algorithms - Static variables - Boolean expressions - Basic Controls and Properties: The CheckBox and MessageBox. - Vocabulary 	<p>Week 9 Week 10 Week 11</p>	<p>Assignment 3 TEST 3</p>
<p>d. Controlling Program Flow with Looping Structures</p> <ul style="list-style-type: none"> - The For...Next Statement - Infinite loops - Basic Control and Properties; The InputBox, ListBox, ComboBox, CheckedListBox and the ListView controls - Accumulator variables - The Do...Loop Statement - The While End While Statement - Vocabulary 	<p>Week 12 Week 13 Week 14</p>	<p>Assignment 4 TEST 4</p>
<p>e. Using the String Class</p> <ul style="list-style-type: none"> - String functions - The Char structure - Unicode - Vocabulary 	<p>Week 15 Week 16</p>	<p>QUIZ 3</p>
<p>f. Apply basic code maintenance techniques when writing programs.</p>	<p>Weeks 12 - 16</p>	

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

General Information:

Recommended Resources - Teacher provided Powerpoint Presentations

Download Microsoft Visual Basic 2008 Express Edition:
<http://www.dreamspark.com>, Registration Key: SECND-4T4WU-6JINC-WHAQM-ORD4H

History of Programming Languages:
http://en.wikipedia.org/wiki/History_of_programming_languages

Tutorials: <http://www.homeandlearn.co.uk/NET/vbNET.html>

How to Seek Extra Help - After school, twice a week, speak with teacher.

Certifications - None