



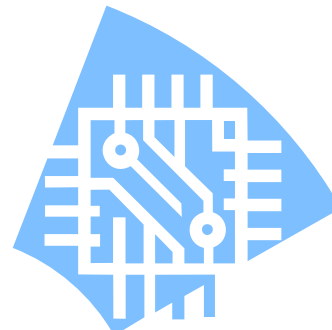
# **MISSISSAUGA SECONDARY SCHOOL**

## *Business Education*

### *Computer and Information Science*

Ministry Document: The Ontario Curriculum,  
Grades 11 and 12,  
Technological Education, 2000.

Course Type: University/College  
Course Code: ICS 3M0  
Department: Business  
Teacher(s): Mississauga Staff  
Date: --



#### **OVERVIEW:**

This course helps students examine computer science concepts. Students will outline stages in software development, define standard control and data structures, identify on- and off-line resources, explain the functions of basic computer components, and develop programming and problem-solving skills by using operating systems and implementing defined practices. As well as identifying careers in computer science, students will develop an understanding of the ethical use of computers and the impact of emergent technologies on society.

**PREREQUISITE:** None

**TEXT:** An Introduction to Programming Using Microsoft Visual Basic .NET  
by Beth Brown and Bruce Presley

#### **COURSE CONTENT:**

<b>Units</b>		<b>Overall Expectations</b>
1	Theory and Foundation	<ul style="list-style-type: none"><li>• describe at least two problem-solving models;</li><li>• identify the stages in the software development process (problem definition, analysis, design, implementation, testing, and maintenance);</li><li>• explain standard control and data structures used in computer programs;</li><li>• identify on-line and off-line resources;</li><li>• explain the functions of basic computer components.</li></ul>
2	Skills and Processes	<ul style="list-style-type: none"><li>• develop effective programs by following the steps in the software design process;</li><li>• use defined programming practices (e.g., headers, indentation, internal documentation, informative variable names);</li><li>• produce appropriate internal and external documentation;</li><li>• properly use an operating system, including a network.</li></ul>
3	Impact and Consequences	<ul style="list-style-type: none"><li>• explain issues related to the ethical use of computers;</li><li>• describe emergent technologies and their impact on society;</li><li>• identify information systems and computer science career paths, and their educational requirements.</li></ul>

#### **EVALUATION:**

Assessment and evaluation in this course will be based on provincial curriculum expectations incorporating the following broad categories.

Term Evaluation – 70%				Final Evaluation – 30%
Knowledge (~40%)	Application (~40%)	Thinking/Inquiry (~10%)	Communication (~10%)	Summative (100%)
<ul style="list-style-type: none"> <li>• Tests</li> <li>• Assignments</li> <li>• Presentations</li> </ul>	<ul style="list-style-type: none"> <li>• Tests</li> <li>• Assignments</li> <li>• Presentations</li> </ul>	<ul style="list-style-type: none"> <li>• Reports</li> <li>• Case Studies</li> <li>• Projects</li> </ul>	<ul style="list-style-type: none"> <li>• Reports</li> <li>• Case Studies</li> <li>• Projects</li> </ul>	<ul style="list-style-type: none"> <li>• Exam</li> <li>• Project</li> </ul>

\* **NOTE:** "~" Means evaluation percentages are approximate.