

**Technology Syllabus, Fourth Academic Quarter 2010—2011**

**Course Facilitator: Mr. Anastasios Georgiou (Mr. T.)**

Full Course Descriptions with Learning Objectives: <http://data.fldoe.org/crsCode/default.cfm?level=68&category=Computer%20Education>

<b>M/J Introduction to Computers</b> <b>Course Code: 0200000</b> <b>6th Grade</b>	<b>M/J Computer Applications I</b> <b>Course Code: 0200010</b> <b>7th Grade</b>	<b>M/J Computer Applications II</b> <b>Course Code: 0200020</b> <b>8th Grade</b>
<p><b>Instructional Materials:</b></p> <ul style="list-style-type: none"> <li>• <i>Lego Mindstorms Education NXT Software and Robot Building Kits</i></li> <li>• <i>Programming with Alice from Carnegie Mellon University (Time Sensitive)</i></li> <li>• <i>Mavis Beacon Teaches Typing</i></li> </ul> <p><b>Scope:</b></p> <ul style="list-style-type: none"> <li>• The world of Robotics will be explored. Learn robotics and compliment skills in computer programming that students learned during the second term. This is a program developed by the Carnegie Mellon University and aimed at middle school age students.</li> <li>• Programming with Alice: Introduction to Computer Programming using Alice. Students will create small programs that command the computer to perform simple instructions in Alice, a free OOP (Object Oriented Programming) language from Carnegie Mellon University.</li> <li>• Typing Skills II (Goal 25 WPM).</li> </ul>	<p><b>Instructional Materials:</b></p> <ul style="list-style-type: none"> <li>• <i>Adobe Premiere Elements 4.0</i></li> <li>• <i>Mavis Beacon Teaches Typing</i></li> </ul> <p><b>Scope:</b></p> <ul style="list-style-type: none"> <li>• Digital Video editing using Adobe Premiere Elements 4.0. Introduction to Digital Video creating and editing. Class introduces concepts regarding: Fundamentals, Capturing, The Interface, Editing Essentials, Audio, Transitions &amp; Effects, Titles &amp; Credits, Working with Photos, and Exporting to DVD and the Web. At the end of instruction students will create an interdisciplinary project about a specific genocide.</li> <li>• Typing Skills IV (Goal 40 WPM).</li> </ul>	<p><b>Instructional Materials:</b></p> <ul style="list-style-type: none"> <li>• <i>Adobe Photoshop Creative Suite 3 (CS3) Web Premium Edition</i></li> <li>• <i>Adobe Premiere Elements 4.0</i></li> <li>• <i>Bryce6 (Digital Imaging software—time permitting)</i></li> </ul> <p><b>Scope:</b></p> <ul style="list-style-type: none"> <li>• Photoshop is the world’s leading digital imaging software application. Students will learn the basics of compositing images into artistic montages, processing raw digital photographs, and producing web animations. Fun and complexity meet.</li> <li>• The world of digital video editing is explored: Students will learn and use more advanced skills in movie making using the popular video editing software by Adobe.</li> <li>• Bryce6: The students will learn the use of computer software in creating digital images and the relationship with mathematics and Boolean functions.</li> </ul>
<p style="text-align: center;"><b>Projects &amp; Activities:</b></p> <ul style="list-style-type: none"> <li>• Projects and activities in this class will integrate with activities from other subjects, such as Science, Math, Language Arts, and Social Studies: Grade Six: Life Sciences PPP; Grade Seven: Genocide Video Documentary, Space Sciences Website; Grade Eight: Public Service Announcement (Water Quality), Music Video</li> <li>• Class time will be allocated for targeted writing assignments and other integrated projects.</li> <li>• Seventh Grade students will create a video documentary about a subject related to genocide.</li> </ul>		
<p><b>Assessment:</b>                  Assessment will be as follows: Projects: 30 %, Exercises: 25 %, Daily Work: 45%.                  Students that have difficulty keeping pace with the class are required to make arrangements with the instructor so they can receive individualized attention through the extended school day.</p> <p>*** The technology instructor will be available to assist students that have trouble with technology assignments on <b>Wednesdays</b> from 2:00 to 5:00 pm in the computer lab . The computer lab is always open for all other purposes from 2:00 to 5:00 p.m. Tuesday through Friday.</p>		