



<p><b>M:</b> Course Objectives / Learning Outcomes</p> <p><b>The student will be able to:</b></p> <ol style="list-style-type: none"> <li>1. demonstrate and explain programming concepts and terminology to facilitate communication with software developers;</li> <li>2. read, trace, and understand simple pseudo code;</li> <li>3. write, test, and debug pseudo code to solve a simple problem;</li> <li>4. list and describe three methods used in programming problem solving;</li> <li>5. design accurate solutions to programming problems;</li> <li>6. develop the plan, the design, and evaluation techniques for programming problems;</li> <li>7. identify the common body of terms used in programming and program development.</li> </ol>												
<p><b>N:</b> Course Content:</p> <ol style="list-style-type: none"> <li>1. An Overview of Computers and Logic</li> <li>2. Structure</li> <li>3. Modules, Hierarchy Charts, and Documentation</li> <li>4. A Complete Program</li> <li>5. Decision Making</li> <li>6. Looping</li> <li>7. Control Breaks</li> <li>8. Arrays</li> <li>9. Advanced Array Manipulation</li> <li>10. Menus and Input Validation</li> <li>11. Sequential File Processing</li> <li>12. Advanced Modularization Techniques and Object-Oriented Programming (Optional Topic)</li> <li>13. Programming Graphical User Interfaces (Optional Topic)</li> </ol>												
<p><b>O:</b> Methods of Instruction</p> <p>Delivery will be by lecture, supplemented with in-class exercises and specific course assignments. This is to allow students to pursue and retain knowledge, comprehend the various significant levels of acquired knowledge (analyzing and identifying their various components), evaluate the significance of the knowledge, synthesize ideas from multiple sources, and apply what is learned.</p>												
<p><b>P:</b> Textbooks and Materials to be Purchased by Students</p> <p style="text-align: center;"><b><i>Programming Logic &amp; Design</i></b>, Joyce Farrell. Course Technology, Latest Edition.</p>												
<p><b>Q:</b> Means of Assessment</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">Assignments (3 to 6)</td> <td style="text-align: right;">20% - 30%</td> </tr> <tr> <td>Midterm Examination</td> <td style="text-align: right;">25% - 30%</td> </tr> <tr> <td>Final Examination</td> <td style="text-align: right;">25% - 30%</td> </tr> <tr> <td>Participation</td> <td style="text-align: right;">0% - 5%</td> </tr> <tr> <td>Quizzes</td> <td style="text-align: right;">0% - 20%</td> </tr> <tr> <td style="text-align: right;">Total</td> <td style="text-align: right;">100%</td> </tr> </table>	Assignments (3 to 6)	20% - 30%	Midterm Examination	25% - 30%	Final Examination	25% - 30%	Participation	0% - 5%	Quizzes	0% - 20%	Total	100%
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<p><b>R</b> Prior Learning Assessment and Recognition: specify whether course is open for PLAR</p> <p>Yes</p>												

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 Course Designer(s): Victor Choong

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 Education Council / Curriculum Committee Representative

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 Dean / Director: Rosilyn G. Coulson

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 Registrar: Trish Angus