



**ECIV 2303 – Computer Programming
Course Syllabus**

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Prerequisite:	Physics I, Calculus A																				
Textbook	Amos Gilat, MatLab - An Introduction with Applications, 5nd Edition (2015)																				
Referencers	1. GUI_Summary.doc 2. Getting Started with MATLBA V7.12																				
Course content	<table border="1"> <thead> <tr> <th>Week</th> <th>Chapter</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1. Starting with MATLAB</td> </tr> <tr> <td>2</td> <td>2. Creating Arrays</td> </tr> <tr> <td>3</td> <td>3. Mathematical Operations with Arrays</td> </tr> <tr> <td>4</td> <td>4. Using Script Files and Managing Data</td> </tr> <tr> <td>5</td> <td>5. Two-Dimensional Plots</td> </tr> <tr> <td>6, 7, 8</td> <td>6. Programming in MATLAB</td> </tr> <tr> <td>9,10</td> <td>7. User-Defined Functions and Function Files</td> </tr> <tr> <td>11</td> <td>10. Three-Dimensional Plots</td> </tr> <tr> <td>12, 13, 14</td> <td>Programming with GUIDE (Reference 1)</td> </tr> </tbody> </table>	Week	Chapter	1	1. Starting with MATLAB	2	2. Creating Arrays	3	3. Mathematical Operations with Arrays	4	4. Using Script Files and Managing Data	5	5. Two-Dimensional Plots	6, 7, 8	6. Programming in MATLAB	9,10	7. User-Defined Functions and Function Files	11	10. Three-Dimensional Plots	12, 13, 14	Programming with GUIDE (Reference 1)
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Course objectives	<ol style="list-style-type: none"> 1. Get familiar with Matlab commands 2. Write small programs using Matlab 3. Do plots using Matlab 4. Do matrix calculations using Matlab 																				

Course intended learning outcomes	<ul style="list-style-type: none">▪ Do Calculations using Matlab▪ Do plots using Matlab
Assessment	Midterm Exam (30%) Attendance (5%) Assignments (10%) Quizzes (10%) Final Exam (45%)
Homework Policy	Homework assignments will be given in a regular basis. Each assignment is to be returned within one week. <i>No delay will be accepted except with good excuse.</i>
Office Hours	As posted on the office door, or by appointment.