# EET 305
## ADVANCED TECHNICAL ANALYSIS
### SYLLABUS

The topical distribution shown below is approximate and may be modified if necessary.

<table>
<thead>
<tr>
<th>Week</th>
<th>Chapter</th>
<th>Topics</th>
<th>Tests/MATLAB</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 12</td>
<td>1</td>
<td>Introduction and MATLAB Primer</td>
<td></td>
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<tr>
<td></td>
<td>19*</td>
<td>Matrices</td>
<td></td>
</tr>
<tr>
<td></td>
<td>26</td>
<td>Matrix Algebra with MATLAB</td>
<td>1</td>
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<tr>
<td></td>
<td></td>
<td>Curve Plotting with MATLAB</td>
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<tr>
<td>Feb.</td>
<td>2</td>
<td>(Accelerated Review) Common Functions and Their Properties</td>
<td>2</td>
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<tr>
<td></td>
<td>9</td>
<td>Differential Calculus</td>
<td>3</td>
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<tr>
<td></td>
<td>16</td>
<td>Calculus Operations with MATLAB</td>
<td>4</td>
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<tr>
<td></td>
<td>23</td>
<td>Differential Equations</td>
<td>5</td>
</tr>
<tr>
<td>March</td>
<td>1</td>
<td>9, 10</td>
<td><em>Ibid</em></td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>SPRING BREAK</td>
<td></td>
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<tr>
<td></td>
<td>15</td>
<td>Solution of Differential Equations with MATLAB</td>
<td>7</td>
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<tr>
<td></td>
<td>22</td>
<td>Introduction to Statistics</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>29</td>
<td><em>Ibid</em></td>
<td>9</td>
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<tr>
<td>April</td>
<td>5</td>
<td>12</td>
<td><em>Ibid</em></td>
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<tr>
<td></td>
<td>12</td>
<td>Curve Fitting and Correlation</td>
<td>11</td>
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<td>19</td>
<td>Introduction to Spatial Vector Analysis</td>
<td>12</td>
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<tr>
<td></td>
<td>26**</td>
<td>Final Class Meeting and Evaluation</td>
<td>13</td>
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<tr>
<td></td>
<td></td>
<td>SPECIAL PROJECT DUE</td>
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<tr>
<td></td>
<td>30</td>
<td>Final Meeting and Evaluation at 12:30 p. m.</td>
<td></td>
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</tbody>
</table>

*There will be no class on Monday, January 19 (Martin Luther King, Jr. Holiday)

**There will be only one class this week (Monday, April 26).

**Grade Distribution:**

- Tests 40%
- MATLAB Assignments 40%
- Special Project 10%
- Additional Considerations 10%

**Text:** Two Coursepacks (one for text and one for figures) available from Monarch Copy Center.