

# MAE 105 – SPRING 2009

## Syllabus

(Textbook: Elementary Applied Partial Differential Equations, 4<sup>th</sup> Edition)

| <u>Lecture Date</u> |                 | <u>Lecture Topic and Assigned Reading</u>                        |
|---------------------|-----------------|--|
| Tuesday             | March 31        | Introduction and Chapter 1: 1.1                                  |
| Thursday            | April 2         | Chapter 1: 1.2, 1.3 & 1.4  |
| <u>Thursday</u>     | <u>April 2</u>  | <u>Chapter 2: 2.1, 2.2 &amp; 2.3 (1-5)</u>                       |
| Tuesday             | April 7         | Chapter 2: 2.3 (6-8) & 2.4 (1-3)                                 |
| *Thursday           | April 9         | Chapter 2: 2.5.1, 2.5.2 (read Section 1.5, and do problem 1.5.3) |
| <u>Thursday</u>     | <u>April 9</u>  | <u>Chapter 5: 5.8</u>  |
| Tuesday             | April 14        | Chapter 3: 3.1 & 3.2   |
| *Thursday           | April 16        | Chapter 3: 3.3 (1-5) 3.4 & 3.5                                   |
| <u>Thursday</u>     | <u>April 16</u> | <u>Chapter 5: 3.6</u>  |
| Tuesday             | April 21        | Chapter 5: 5.1 & 5.2   |
| Thursday            | April 23        | <b>Midterm #1</b> (All material covered to date)                 |
| <u>Thursday</u>     | <u>April 23</u> | <u>Solution of Midterm #1</u>                                    |
| Tuesday             | April 28        | Chapter 5: 5.3   |
| *Thursday           | April 30        | Chapter 5: 5.5   |
| <u>Thursday</u>     | <u>April 30</u> | <u>Chapter 7: 7.1-7.3</u>  |
| Tuesday             | May 5           | Chapter 7: 7.7 (1-7)   |
| *Thursday           | May 7           | Chapter 7: 7.7 (8-9)   |
| <u>Thursday</u>     | <u>May 7</u>    | <u>Chapter 4: 4.4 Chapter 12: 12.1 &amp; 12.2</u>                |
| Tuesday             | May 12          | <b>Midterm #2</b> (All material covered since Midterm#1)         |
| Thursday            | May 14          | Solution of Midterm #2   |
| <u>Thursday</u>     | <u>May 14</u>   | <u>Chapter 12: 12.3 &amp; 12.4</u>                               |
| Tuesday             | May 19          | Chapter 12: 12.5   |
| *Thursday           | May 21          | Chapter 12: Review of Chapter 12                                 |
| <u>Thursday</u>     | <u>May 21</u>   | <u>Chapter 8: 8.1 &amp; 8.2</u>                                  |
| Tuesday             | May 26          | Chapter 8: 8.3 & 8.4   |
| *Thursday           | May 28          | Chapter 8: 8.5   |
| <u>Thursday</u>     | <u>May 28</u>   | <u>Chapter 10: 10.1 – 10.3</u>                                   |
| Tuesday             | June 2          | Problem Solving for Chapters 8, 10 & 12                          |
| Thursday            | June 4          | Chapter 10: 10.4 & 10.5  |
| <u>*Thursday</u>    | <u>June 4</u>   | <u>REVIEW FOR FINAL</u>  |

**Monday June 8<sup>th</sup> 3:00 – 6:00 FINAL EXAMINATION**

\* Denotes that a 20 minute quiz will be given (closed book, closed notes, and no calculator or computer)

**Weekly Homework will be assigned on Tuesdays and due the following Tuesday.**