## COURSE SCHEDULE (Tentative 4/22/10)

| Lecture | DATE | TOPICS | READING | DUE DATES |
|---|---|---|---|---|
| 1 | Th 1/7 | Introduction to course<br>Basic concepts and terminology<br>Introduction to modeling | Chap. 1 | |
| 2 | Tu 1/12 | Linearization | Chap. 1 | |
| 3 | Th 1/14 | Mechanical systems | Chap. 2 | HW Set #1 |
| 4 | Tu 1/19 | Analytical solutions | Chap. 3 | |
| 5 | Th 1/21 | Laplace transform solutions | Chap. 3 | HW Set #2 |
| 6 | Tu 1/26 | Laplace transform solutions | Chap. 3 | |
| 7 | Th 1/28 | Transfer functions | Chap. 3 | HW Set #3 |
| 8 | Tu 2/2 | Mechanical systems | Chap. 4 | |
| 9 | Th 2/4 | Mechanical systems | Chap. 4 | HW Set #4 |
| 10 | Tu 2/9 | Mechanical systems | Chap. 4 | |
| 11 | Th 2/11 | State space models | Chap. 5 | HW Set #5 |
| 12 | Tu 2/16 | State space models | Chap. 5 | |
| 13 | Th 2/18 | Electrical systems | Chap. 6 | HW Set #6 |
| 14 | Tu 2/23 | Electromechanical systems | Chap. 6 | |
| | Th 2/25 | **MIDTERM EXAMINATION #1** | | |
| | 2/27– 3/7 | **WINTER RECESS** | | |
| 15 | Tu 3/9 | Electromechanical systems | Chap. 6 | |
| 16 | Th 3/11 | Thermal/fluid systems | Chap. 7 | HW Set #7 |
| 17 | Tu 3/16 | Thermal/fluid systems | Chap. 7 | |
| 18 | Th 3/18 | Time response | Chap. 9 | HW Set #8 |
| 19 | Tu 3/23 | Time response | Chap. 9 | |
| 20 | Th 3/25 | Time response | Chap. 9 | HW Set #9 |
| 21 | Tu 3/30 | Frequency response | Chap. 8 | |
| 22 | Th 4/1 | Frequency response | Chap. 8 | PROJECT REPORT |
| 23 | Tu 4/6 | Bode plots | Chap. 8 | |
| 24 | Th 4/8 | Control systems | Chap. 10 | HW Set #10 |
| 25 | Tu 4/13 | Control systems | Chap. 10 | |
| 26 | Th 4/15 | Control systems | Chap. 10 | HW Set #11 |
| 27 | Tu 4/20 | Last Class – Review and Preview | Handout | |
| | | **FINAL EXAM Schedule: TBA** | | |