

ME 3281: System Dynamics and Control
Spring Semester, 2009

<http://www.me.umn.edu/courses/me3281/>

Tentative Calendar

Session	Topic
1. <u>01/20</u>	Introduction to Course Objective and Requirements
2. <u>01/22</u>	Translational Mechanical Systems 1
3. <u>01/27</u>	Translational Mechanical Systems 2
4. <u>01/29</u>	Standard Forms for System Models 1
5. <u>02/03</u>	Standard Forms for System Models 2
6. <u>02/05</u>	Solving Mathematical Models - Block Diagrams and Computer Simulation
7. <u>02/10</u>	Rotational Mechanical Systems
8. <u>02/12</u>	Electrical Systems 1
9. <u>02/17</u>	Electrical Systems 2
10. <u>02/19</u>	Review Session
11. 02/24	Midterm Exam I
12. <u>02/26</u>	Solving Mathematical Models 1 - Laplace Transforms
13. <u>03/03</u>	Solving Mathematical Models 2 - Laplace Transforms
14. <u>03/05</u>	Solving Mathematical Models 3 - Laplace Transforms
15. <u>03/10</u>	The response of 1 st and 2 nd Order Systems 1
16. <u>03/12</u>	The response of 1 st and 2 nd Order Systems 2
17. <u>03/17</u>	Spring Break; No class
18. <u>03/19</u>	Spring Break; No class
19. <u>03/24</u>	Transfer Function Analyses 1
20. <u>03/26</u>	Transfer Function Analyses 2
21. <u>03/31</u>	Developing a Linear Model
22. <u>04/02</u>	Review Session
23. 04/07	Midterm Exam II
24. <u>04/09</u>	Frequency Responses
31. <u>04/14</u>	Frequency Responses
32. <u>04/16</u>	Electromechanical Systems
33. <u>04/21</u>	Guest lecture, "Why modeling?"
34. <u>04/23</u>	Control Systems (Introduction) 1
35. <u>04/28</u>	Control Systems (Introduction) 2
36. <u>04/30</u>	Block Diagrams for Dynamic Systems 1
37. <u>05/05</u>	Block Diagrams for Dynamic Systems 2
38. <u>05/07</u>	Review Session
39. 05/13	Final Exam (10:30 am -12.30 pm).