

SP211 Fall 2013: Section 5522 Schedule

- Reading assignments and HW problems are indicated below by textbook chapter. The HW problems should be completed through the Wiley Plus website, and are due by the following MWF class period.
 - The final exam is a common exam that all instructor's weight 30%. The final consists of 50 multiple choice questions. The final is curved.
 - If you earn an F on the final, your instructor, independent of your numerical average calculated as outlined in your instructor's course policy statement, is free to assign a course grade lower than your 16 week grade.
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Listing of Exam Dates

Week 6 Tuesday Sept 24: Exam 1

Week 11 Tuesday Oct 29: Exam 2

Week 16 Wednesday Dec 4: Exam 3 (last day of class)

Week 1: 19 August - 23 August

Monday Administration, Introduction

Tuesday LAB 1: 1D Kinematics

1. Wednesday 2.1 - 2.6 1D Kinematics (5, 14, 19)
2. Friday 2.7-2.9 Constant Acceleration and Free-fall (28, 32, 35)

Week 2: 26 August - 30 August

3. Monday Finish 2.9 Free Fall and Ch. 3 Vectors (49, 55, 60)

Tuesday LAB 2: 2D Kinematics

4. Wednesday 4.1 - 4.4 2D and 3D Kinematics (3, 7, 16)
5. Friday 4.5 - 4.6 Projectile Motion (22, 27, 28)

Week 3: 3 September - 6 September

Monday Labor Day

6. Tuesday (Monday Schedule) 4.7 Uniform Circular Motion (56, 62, 64)
7. Wednesday 4.8 - 4.9 Relative Motion (74, 76, 79)
8. Friday 5.1 - 5.8 Newton's Laws (5, 7, 13)

Week 4: 9 September - 13 September

9. Monday 5.9 Applying Newton's Laws (17, 18, 34)

Tuesday LAB 3: Newton's Laws

10. Wednesday 5.9 Applying Newton's Laws (44, 56, 57)
11. Friday 6.1 - 6.3 Friction (21, 28, 34)

Week 5: 16 September - 20 September

12. Monday 6.4 - 6.5 Drag, Uniform Circular Motion(36, 43, 51)

Tuesday LAB 4: Uniform Circular Motion

13. Wednesday 7.1 - 7.6 Kinetic Energy, Work, Work Done by Gravity (9, 15, 19)

14. Friday 7.7 - 7.9 Work done by Variable Forces, Power (28, 31, 38)

Week 6: 23 September - 27 September

Monday Review

Tuesday EXAM 1

15. Wednesday 8.1 - 8.5 Potential Energy, Conservation of Mechanical Energy (8, 19, 34)

Friday LECTURE DEMO 1: Kinematics and Dynamics

Week 7: 30 September - 4 October

16. Monday 8.6 - 8.8 Conservation of Energy (45, 50, 53)

Tuesday LAB 5: Work and Energy

17. Wednesday 9.1 - 9.5 Center of Mass, Momentum (3, 13, 22)

18. Friday 9.6 - 9.7 Impulse, Conservation of Momentum (24, 33, 40),

19. 9.8 - 9.11 Collisions (49, 64, 73)

Week 8: 7 October - 11 October

20. Monday 10.1 - 10.5 Rotational Kinematics (11, 22, 29)

Tuesday LAB 6: Momentum and 1D Collisions

21. Wednesday 10.6 - 10.7 Rotational Kinetic Energy, Rotational Inertia (33, 37, 44)

22. Friday 10.8 - 10.9 Torque, Newton's 2nd Law for Rotation (46, 47, 56)

Week 9: 15 October - 18 October

Monday Columbus Day

23. **Tuesday 10.10 Work and Rotational Kinetic Energy (58, 61, 63)**

24. Wednesday 11.1 - 11.5 Rolling (4, 12, 17)

25. Friday 11.6 - 11.7 Angular Momentum (25, 26, 29)

Week 10: 21 October - 25 October

26. Monday 11.8 - 11.11 Conservation of Angular Momentum (39, 46, 53)

Tuesday LAB 7: 2D Collisions and Center of Mass

27. Wednesday 13.1 - 13.6 Newton's Law of Gravitation (8, 19, 40)

28. Friday 13.7 - 13.8 Kepler's Laws, Satellites (46, 50, 62)

Week 11: 28 October - 1 November

29. Monday 14.1 - 14.4 Fluids: Density and Pressure (5, 13, 19)

Tuesday EXAM 2

30. Wednesday 14.6 - 14.9 Fluids: Pascal, Archimedes, Ideal Fluids (29, 32, 39)

Friday LECTURE DEMO 2: Energy and Momentum

Week 12: 4 November - 8 November

31. Monday 14.10 Bernoulli's Equation (58, 64, 67)

Tuesday LAB 8: Rotational Kinematics and Dynamics

32. Wednesday 15.1 - 15.4 Simple Harmonic Motion (9, 14, 30)

33. Friday 15.8 - 15.9 Damped and Forced Oscillations (58, 60, 63)

Week 13: 12 November - 15 November

Monday Veterans Day

34. Tuesday 15.6 Pendulums (62, 40, 41) and LAB 9: Simple Harmonic Motion

35. Wednesday 16.1 - 16.5 Traveling Waves (4, 5, 10)

36. Friday 16.6, 16.9 - 16.10 Wave Speed on a String, Superposition, Interference (14, 18, 32)

Week 14: 18 November - 22 November

37. Monday 16.12 - 16.13 Standing Waves (40, 43, 45)

Tuesday LAB 10: Standing Waves

38. Wednesday 17.1 - 17.3, 17.6 Sound Waves, Intensity and Sound Level (2, 27, 29)

39. Friday 17.7 - 17.8 Sources of Musical Sound, Beats (40, 43, 52)

Week 15: 25 November - 27 November

40. Monday 17.9 - 17.10 Doppler Effect, Shock Waves (55, 59, 68)

Tuesday REVIEW Part 1

Wednesday LECTURE DEMO 3: Simple Harmonic Motion and Waves

THANKSGIVING BREAK

Week 16: 2 December - 5 December

Monday REVIEW Part 2

Tuesday REVIEW Part 3

Wednesday Exam 3 (last day of class)