

Syllabus – Physics 140 – Winter 2017

Monday	Tuesday	Wednesday	Thursday
January 02 No Classes Winter Break	January 03 No Classes Winter Break	January 04 Introduction Course Organization	January 05 Lecture 01 Vectors Sections 1.1-1.7
January 09 Lecture 02 Vectors Sections 1.8-1.10	January 10 Lecture 03 Vectors Sections 1.8-1.10	January 11 Lecture 04 1D Kinematics Sections 2.1-2.3 FIP-01 due at 9:00 am MP-00 due at 11:59 pm	January 12 Lecture 05 1D Kinematics Sections 2.4-2.6
January 16 No Classes Martin Luther King Day	January 17 Lecture 06 3D Kinematics Sections 3.1-3.2 FIP-02 due at 9:00 am	January 18 Lecture 07 Projectile Motion Section 3.3 MP-01 due at 11:59 pm	January 19 Lecture 08 Circular Motion Sections 3.4 FIP-03 due at 9:00 am
January 23 Lecture 09 Relative Motion Section 3.5	January 24 Lecture 10 Newton's Laws Sections 4.1-4.4 FIP-04 due at 9:00 am	January 25 Lecture 11 Newton's Laws Sections 4.5-4.6 MP-02 due at 11:59 pm	January 26 Lecture 12 Forces Sections 5.1-5.2, 5.5 FIP-05 due at 9:00 am
January 30 Lecture 13 Forces Sections 5.1-5.2	January 31 Lecture 14 Friction Section 5.3 FIP-06 due at 9:00 am	February 01 Lecture 15 Applying Newton's Laws Section 5.3 MP-03 due at 11:59 pm	February 02 Lecture 16 Applying Newton's Laws Section 5.4 Exam 1 at 6:10 pm Chapters 1-5
February 06 Lecture 17 Work Sections 6.1, 6.3 FIP-07 due at 9:00 am	February 07 Lecture 18 Work-Energy Theorem Sections 6.2-6.4	February 08 Lecture 19 Conservative Forces Sections 7.1-7.3 FIP-08 due at 9:00 am MP-04 due at 11:59 pm	February 09 Lecture 20 Potential Energy Sections 7.3-7.5 FIP-09 due at 9:00 am
February 13 Lecture 21 Potential Energy Sections 7.3-7.5	February 14 Lecture 22 Momentum Sections 8.1-8.2	February 15 Lecture 23 Momentum Sections 8.1-8.3 FIP-10 due at 9:00 am MP-05 due at 11:59 pm	February 16 Lecture 24 Collisions Sections 8.3-8.4 FIP-11-12 due at 9:00 am
February 20 Lecture 25 Collisions Sections 8.3-8.4	February 21 Lecture 26 Center of Mass Section 8.5	February 22 Lecture 27 Angular Kinematics Sections 9.1-9.3 FIP-13 due at 9:00 am MP-06 due at 11:59 pm	February 23 Lecture 28 Moment of Inertia Sections 9.4-9.6 FIP-14 due at 9:00 am

Monday	Tuesday	Wednesday	Thursday
February 27 No Classes Spring Break	February 28 No Classes Spring Break	March 01 No Classes Spring Break	March 02 No Classes Spring Break
March 06 Lecture 29 Torque Sections 10.1-10.2	March 07 Lecture 30 Rotational Dynamics Sections 10.1-10.2 FIP-15 due at 9:00 am	March 08 Lecture 31 Rotational Dynamics Sections 10.2-10.3 MP-07 due at 11:59 pm	March 09 Lecture 32 Rolling without Slipping Sections 10.3 Exam 2 at 6:10 pm Sections 6.1-10.2
March 13 Lecture 33 Angular Momentum Sections 10.5-10.6 FIP-16-17 due at 9:00 am	March 14 Lecture 34 Angular Momentum Sections 10.5-10.6	March 15 Lecture 35 Angular Momentum Sections 10.5-10.6 MP-08 due at 11:59 pm	March 16 Lecture 36 Static Equilibrium Sections 11.1-11.4 FIP-18-19 due at 9:00 am
March 20 Lecture 37 Gravitational Force Sections 13.1-13.2	March 21 Lecture 38 Gravitational Potential Energy Sections 13.1-13.3	March 22 Lecture 39 Circular Orbits, Escape Velocity Sections 13.3-13.4 MP-09 due at 11:59 pm	March 23 Lecture 40 Apparent Weight, Shell Theorem, Kepler's Laws Sections 13.4-13.8
March 27 Lecture 41 Simple Harmonic Motion Sections 14.1-14.2 FIP-20 due at 9:00 am	March 28 Lecture 42 Simple Harmonic Motion Sections 14.4-14.6 FIP-21 due at 9:00 am	March 29 Lecture 43 Energy in SHM Section 14.3 MP-10 due at 11:59 pm	March 30 Lecture 44 Damped Oscillations, Driven Oscillations Sections 14.7-14.8
April 03 Lecture 45 Mechanical Waves Sections 15.1-15.4 FIP-22 due at 9:00 am	April 04 Lecture 46 Harmonic Waves Sections 15.1-15.4	April 05 Lecture 47 Standing Waves Sections 15.5-15.6 FIP-23 due at 9:00 am MP-11 due at 11:59 pm	April 06 Lecture 48 Normal Modes Sections 15.6-15.8 Exam 3 at 6:10 pm Sections 10.3-11.5 and 13.1-14.8
April 10 Lecture 49 Fluid Statics Sections 12.1-12.2 FIP-24 due at 9:00 am	April 11 Lecture 50 Fluid Statics Sections 12.1-12.3	April 12 Lecture 51 Buoyancy Section 12.3 MP-12 due at 11:59 pm	April 13 Lecture 52 Fluid Dynamics Sections 12.4-12.5 FIP-25 due at 9:00 am
April 17 Lecture 53 Fluid Dynamics Sections 12.4-12.6	April 18 Catching Up Summing Up MP-13 due at 11:59 pm	April 19 No Classes Study Day	April 20 No Classes Study Day
Friday, April 21 Final Exam at 7:30 pm All Chapters (1-15)			