

Course Syllabus - Online Physics

Week of	What you should do during the week	Assignments
Week 1	☐ Section 1.1: Physics and Science ☐ Section 1.2: Units and Scientific Notation ☐ Section 1.3: Converting Units ☐ HW 1A ☐ HW 1B ☐ Section 1.4: Measurement ☐ Lab 1A ☐ HW 1C (Honors) ☐ Chapter 1 Test	HW 1A HW 1B Lab 1A HW 1C (Honors) Chapter 1 Test
Week 2	☐ Section 2.1: Definitions ☐ HW 2A ☐ HW 2B ☐ Section 2.2: Graphing Position vs. Time ☐ HW 2C	HW 2A HW 2B HW 2C
Week 3	☐ Section 2.3: Acceleration ☐ HW 2D ☐ Section 2.4: Equations for Accelerated Motion ☐ HW 2E ☐ Section 2.5: Equations for Accelerated Motion, Part 2 ☐ HW 2F ☐ HW 2G	HW 2D HW 2E HW 2F HW 2G
Week 4	☐ Section 2.6: Position, Velocity, and Acceleration Graphs ☐ Section 2.7: Falling Bodies ☐ HW 2H, HW 2I, HW 2J ☐ HW 2K (Honors) ☐ Lab 2A ☐ Chapter 2 Test	HW 2H HW 2I HW 2J Lab 2A HW 2K (Honors) Chapter 2 Test
Week 5	☐ Section 3.1: Vectors ☐ HW 3A ☐ Section 3.2: Relative Velocity ☐ HW 3B ☐ Section 3.3: Trigonometry ☐ HW 3C ☐ HW 3D	HW 3A HW 3B HW 3C HW 3D
Week 6	☐ Section 3.4: Vectors and Components ☐ HW 3E ☐ Lab 3A	HW 3E Lab 3A
Week 7	☐ Section 3.5: Projectile Motion ☐ HW 3F ☐ HW 3G ☐ Lab 3B ☐ HW 3H (Honors) ☐ HW 3I (Honors) ☐ Test on Chapter 3	HW 3F HW3G Lab 3B HW 3H (Honors) HW 3I (Honors) Chapter 3 Test
Week 8	☐ Section 4.1: Introduction ☐ Section 4.2: Newton's First Law ☐ Section 4.3: Newton's Second Law ☐ HW 4A	HW 4A
Week 9	☐ Section 4.4: Newton's Third Law ☐ Section 4.5: Weight ☐ HW 4B ☐ Section 4.6: Newton's Second Law Applied ☐ HW 4C	HW 4B HW 4C

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Week 10	☐ Section 4.7: Friction ☐ HW 4D ☐ HW 4E ☐ Lab 4A and Lab 4B ☐ Honors students do section 4.8: Inclines ☐ Honors students do HW 4F and HW 4G ☐ Chapter 4 Test	HW 4D HW 4E Lab 4A and Lab 4B HW 4F (Honors) HW 4G (Honors) Chapter 4 Test
Week 11	☐ Section 5.1: Intro to Work and Energy ☐ Section 5.2: Kinetic Energy ☐ HW 5A ☐ HW 5B ☐ Section 5.3: Potential Energy ☐ HW 5C	HW 5A HW 5B HW 5C
Week 12	☐ Section 5.4: Conservation of Energy ☐ HW 5D ☐ HW 5E ☐ Section 5.5: Power ☐ HW 5F ☐ Lab 5A	HW 5D HW 5E HW 5F Lab 5A
Week 13	☐ Section 6.1: Momentum ☐ HW 6A ☐ Section 6.2: Conservation of Momentum ☐ HW 6B ☐ Honors students do section 6.3: The Ballistic Pendulum ☐ Section 6.4: Angular Momentum ☐ Chapter 6 Test	HW 6A HW 6B Chapter 6 Test
Week 14	First Semester Exam	

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Week of	What you should do during the week	Turn in by the next class
Week 15	☐ Section 7.1: Uniform Circular Motion ☐ HW 7A ☐ Section 7.2: A Car on a Flat Turn ☐ HW 7B ☐ Section 7.3: A Ride at an Amusement Park ☐ HW 7C	HW 7A HW 7B HW 7C
Week 16	☐ Section 7.4: A Car in a Banked Turn ☐ HW 7D ☐ Section 7.5: An Object in a Vertical Circle ☐ HW 7E ☐ Section 7.6: A Roller Coaster Loop ☐ HW 7F ☐ Section 7.8: Summary	HW 7D HW 7E HW 7F
Week 17	☐ Section 8.1: Newton's Law of Universal Gravitation ☐ HW 8A ☐ Section 8.2: Gravity Near the Earth's Surface ☐ HW 8B ☐ HW 8C	HW 8A HW 8B HW 8C
Week 18	☐ Section 8.3: Satellites and Weightlessness ☐ Section 8.4: Circular Orbits ☐ HW 8D ☐ Section 8.5: Geosynchronous Orbits ☐ HW 8E ☐ Honors students do HW 8F, HW 8G ☐ Section 8.6: History of Theories of Planetary Orbits ☐ Test on Chapters 7 and 8	HW 8D HW 8E HW 8F (Honors) HW 8G (Honors) Chapters 7 and 8 Test
Week 19	☐ Section 9.1: Atoms ☐ Section 9.2: Temperature ☐ HW 9A ☐ Section 9.3: Pressure ☐ HW 9B ☐ Section 9.4: Absolute Zero ☐ HW 9C	HW 9A HW 9B HW 9C
Week 20	☐ Section 9.5: Thermal Expansion ☐ HW 9D ☐ Section 9.6: Gas Laws ☐ HW 9E ☐ Section 9.7: The Mechanical Equivalent of Heat ☐ HW 9F	HW 9D HW 9E HW 9F
Week 21	☐ Section 9.8: Specific Heat Capacity ☐ HW 9G ☐ Section 9.9: Calorimetry ☐ HW 9H ☐ Section 9.10: Entropy ☐ Chapter 9 Test	HW 9G HW 9H Chapter 9 Test
Week 22	☐ Sections 10.1: Oscillations and Resonance ☐ Section 10.2: Wave Motion ☐ HW 10A ☐ Lab 10A ☐ Section 10.3: Sound Waves	HW 10A Lab 10A

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Week 23	☐ Section 10.4: The Doppler Effect ☐ HW 10B ☐ HW 10C ☐ HW 10D ☐ HW10E ☐ Section 10.5: The Doppler Effect with Light Waves	HW 10B HW 10C HW 10D HW 10E
Week 24	☐ Section 11.1: Reflection ☐ Section 11.2: Refraction ☐ HW 11A ☐ Section 11.3: Lenses ☐ Section 11.4: Total Internal Reflection ☐ Lab 11A ☐ Test on Chapters 10 and 11	HW 11A Lab 11A Chapters 10 and 11 Test
Week 25	☐ Section 12.1: Static Electricity ☐ Section 12.2: Coulomb's Law ☐ HW 12A	HW 12A
Week 26	☐ Section 12.3: Michael Faraday and Electric Fields ☐ HW 12B ☐ HW 12C	HW 12B HW 12C
Week 27	☐ Section 12.4: Electric Potential and Voltage ☐ HW 12D ☐ Section 12.5: Simple Circuits ☐ Section 12.6: Capacitance ☐ HW 12E ☐ Chapter 12 Test	HW 12D HW 12E Chapter 12 Test
Week 28	☐ Section 13.1: Early History ☐ Section 13.2: Electric Current, Ohm's Law, Resistivity ☐ HW 13A ☐ HW 13B ☐ Section 13.3: Electric Power ☐ HW13C	HW 13A HW 13B HW 13C
Week 29	☐ Section 13.4: Resistors in Series and Parallel ☐ HW 13D ☐ HW 13E	HW 13D HW 13E
Week 30	☐ HW 13F ☐ HW 13G ☐ Section 13.5: Power Generation ☐ Lab 13A ☐ Chapter 13 Test	HW 13F HW 13G Lab 13A Chapter 13 Test
Week 31	Exam Review	
Week 32	Second Semester Exam	