Tentative Course Calendar

Late updated: October 19, 2019
Treat this calendar as a rough road-map, as we may slow down or speed up as the semester progresses.

Monday	Wednesday	Friday
Sep 2nd **1** §1.7–1.8: Overview; Tools for physical reasoning	Sep 4th **2** §1.1–1.6, 2.1–2.3: Kinematics overview; 1D kinematics	Sep 6th **3** §2.4–2.7: More 1D kinematics
Sep 9th **4** *Lab 1: Measurement and Uncertainty* §3.1–3.4, 4.1–4.2: Vectors; 2D kinematics overview	Sep 11th **5** §4.3: Projectile motion	Sep 13th **6** **Drop Deadline** §4.5–4.7: Circular motion and angular variables
Sep 16th **7** *Lab 2: 1D Kinematics* §5.1–5.5, 5.7: Force & motion (part 1)	Sep 18th **8** §6.1–6.3: Force & motion (part 2)	Sep 20th **9** §4.4, 5.6: Newton's first law; Relative motion
Sep 23rd **10** *Lab 3: Newton's 2nd Law* [*N.A.*]: *Lecture cut short by fire alarm*	Sep 25th **11** §6.4, 6.6, Friction force	Sep 27th **12** [*supplement*], §7.1–7.3: drag force; interacting system
Sep 30th **13** *Lab 4: Resistive Forces* §7.4–7.5: More on interacting systems	Oct 2nd **14** §8.1: Dynamics of 2D motion	Oct 4th **15** §8.2, 8.5: Dynamics of circular motion

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Oct 7th **16** **Week of Test 1** §9.1–9.2: Impulse and momentum	Oct 9th **17** §9.3–9.5: Conservation of momentum	Oct 11th **18** [*Supplement*]: Center of mass motion
Oct 14th **No Class** **Fall Break**	Oct 16th **No Class** **Fall Break**	Oct 18th **No Class** **Fall Break**
Oct 21st **19** *Lab 5: Circular Motion* §10.1–10.3: Gravitational potential energy	Oct 23rd **20** §10.4–10.7: Spring elastic energy; Elastic collisions	Oct 25th **21** §11.1–11.4: Work and energy
Oct 28th **22** *Lab 6: Ballistic Pendulum* §11.5, 11.7–11.9: Thermal energy and energy conservation; Power	Oct 30th **23** §12.1, 12.4–12.5: Moment of inertia; Torque	Nov 1st **24** §12.6–12.8: Rotational dynamics (fixed axis); Statics
Nov 4th **25** *Lab 7: Torque & Moment of Inertia* §12.2, 12.9 (part): Torque-free rotation; Rolling kinematics	Nov 6th **26** [*Supplement*]: Rolling dynamics	Nov 8th **27** **Withdraw Deadline** [*N.A.*]: *Leeway/review*

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Nov 11th **28** *Lab 8: Pressure & Buoyancy* §15.1–15.3: Fluid overview; Density and pressure	Nov 13th **29** §15.4: Buoyancy	Nov 15th **30** §15.5: Fluid dynamics (part 1)
Nov 18th **31** **Week of Test 2** [*Supplement*]: Fluid dynamics (part 2)	Nov 20th **32** §18.2–18.3, 16.1–16.2: Microscopic view of pressure	Nov 22nd **33** §16.3–16.5: Ideal gas law; Phases of matter
Nov 25th **34** §16.6, 17.1–17.4: Ideal gas processes; First law of thermodynamics	Nov 27th **35** §17.5–17.6: Specific heat and calorimetry	Nov 29th **No Class** **Thanksgiving**
Dec 2nd **36** *Lab 9: Absolute Zero* §17.7, 19.1: Specific heat of ideal gas; Heat engine overview	Dec 4th **37** §19.2–19.4: More on heat engine	Dec 6th **38** §19.5–19.6: Limits of efficiency
Dec 9th **39** §N.A.: *Leeway/review*	Dec 11th **No Class** **Reading Days**	Dec 13th **No Class** **Finals Begin**