Instructor Contact Information

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Office Hours
Mon. 10-11 and 1-2
Tues. NONE
Wed. 10-11 and 1-2
Tues. NONE
Fri. 10-11

Course Information

- Time: 12:00 - 12:50 p.m. Monday, Wednesday, and Friday.
- Place: Neckers 440.
- Course Objective: To develop an understanding of the fundamental concepts and principles of classical Newtonian mechanics.

Grading: The grading scheme is provided below. Three of the four quarterly exams scores will count towards your final grade; the lowest quarterly exam score will be dropped. Homework will be due by the end of the lecture on the date in which it is due—late homework will not be accepted.

- 3 Quizzes: 45% total (15% each)
- Final Exam: 25%
- Homework: 30%

Exam Structure: There will be four quarterly exams this semester as well as a final exam. The final exam will consist of questions related to all of the subjects covered during the course. The quarterly exams will consist of questions related to specific areas of mechanics:

- Quiz 1—Chapters 1, 3, 5, and 12
- Quiz 2—Chapters 6, 7, 8 and 10
- Quiz 3—Chapters 9, 11, 12, and 13
- Quiz 4—Chapters 14, 16, 17, and 18

Schedule: A tentative outline of the class schedule and selected material that will be discussed during the course is provided below.

Jan. 18–22 Coordinate Systems, Vectors, and Particle Motion [Ch. 1 - 4]
Jan. 25–29 Coordinate Systems, Vectors, and Particle Motion [Ch. 1 - 4]
Feb. 1–5 Forces, Couples, and Moments [Ch. 5]
Feb. 8–12 Particle Dynamics [Ch. 5 and 6]
Feb. 15–19  Circular Motion and Rigid-Body Dynamics [Ch. 6 and 10]  [Quiz 1: Feb. 19]
Feb. 22–26  Work and Energy [Ch. 7 and 8]
Feb. 29–Mar. 4  Motion in a Conservative Force Field [Ch. 13]
Mar. 7–11  Mechanical Vibrations and Oscillatory Motion [Ch. 15]
  Quiz 2: Take-home quiz assigned on Mar. 11  Due on Mar. 23
Mar. 14–18  Spring Break
Mar. 21–25  Impulse and Momentum [Ch. 9 and 11]
Mar. 28–Apr. 1  Deformable Bodies in Equilibrium [Ch. 12]
Apr. 4–8  Fluid Mechanics [Ch. 14]
Apr. 11–15  Wave motion in One Dimension [Ch. 16, 17, and 18]  [Quiz 3: Apr. 15]
Apr. 18–22  Wave motion in One Dimension [Ch. 16, 17, and 18]
  Quiz 3: Take-home quiz assigned on Apr. 22  Due on May 2
Apr. 25–29  The Kinetic Theory of Gases [Ch. 21]
May 2–6  Review Week
May 9–13  Final Exams

NOTICE: Make-up exams will only be given, before the exam, for properly documented valid reasons: religious observance; military service; bereavement; official university business; properly documented medical reason that prevents you from taking the exam (a letter from the doctor treating you is proper documentation; a note from student health services is not); jury duty or appearance in court.

In any case in which an absence will occur, you need to use the proper university form (Undergraduate Student Absence Form For University-Approved Activities) to request an accommodation from the instructor. This form must be presented to the instructor before the absence occurs (except in the medical emergency situation).