PHYS 2610 - General Physics 1

Summer 2026 Syllabus, Section 01, CRN 30400,

Credit hours: 4

Instructor

Donald Priour

Professional Qualifications:
PhD in Physics; Princeton University
MS in Physics; Princeton University
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Course Description

2610. General Physics 1. A course in mechanics; the kinematics and dynamics of masses in translation and rotation; Newton's Laws; gravity; the conservation laws of energy and momentum; simple harmonic motion and introduction to wave motion and sound. Prereq.: High school physics or PHYS 1501. Prereq. or concurrent: MATH 1571. 4 s.h.

Course Readings

Group	Title	Author	ISBN
	Handwritten notes spanning the corpus of the course will be distributed at regular intervals	Donald Priour	

Handwritten notes spanning the entire course will be provided at regular intervals. No external textbook is required (though any previous edition of the Calculus based General Physics text by Serway and Jewitt may be used), and homework sets will be sent to you via email and will be poste4d on the Blackboard site.

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

Schedule of Topics and Assignments

Day	Date	Proposed Topic	Due/To Prepare for Class
Mon	5/11	Introductory comments; Section 1 Dimensions and Units	
Wed	5/13	Section 1 continued: Dimensions and dimensional analysis	
Fri	5/15	Section 2: Motion and Uniform Acceleration	Homework 1 due
Mon	5/18	Section 3: Projectile Motion and Relative Velocity	Homework 2 due Tue at 5pm
Wed	5/20		First Midterm exam in class Homework 3 due with exam

Fri	5/22		
Mon	5/25		
Wed	5/27	Section 5: Newton's Laws	
Fri	5/29	Section 5: Newton's Laws continued and work and Energy	Homework 4 due
Mon	6/1	Section 6: Momentum, impulse, and center of mass	Homework 5 due
Wed	6/3		Midterm Exam 2 (Newton's Laws and Energy and Momentum Conservation) Homework 6 due with exam
Fri	6/5	Section 7: Moments of Inertia and rotational kinetic energy; kinetic energy of rolling	
Mon	6/8	Section 8: Angular Acceleration	Homework 7 due
Wed	6/10	Section 9: Torque	Homework 8 due
Fri	6/12	Section 9: Torque (continued); Section 10: Angular Momentum	Homework 9 due
Mon	6/15		Midterm Exam 3 Homework 10 due with exam
Wed	6/17	Section 11: Fluid Mechanics	
Fri	6/19	Section 12: Waves and Oscillations	Homework 11 due
Mon	6/22	Cumulative Review of course material	Homework 12 due
Wed	6/24		Final Exam

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.