

PRINCIPLES OF PHYSICS I PHYSICS 2211 Fall 2017

INSTRUCTOR: Dr. Frank Flaherty Flaherty@valdosta.edu

LECTURE: NH 1061 Tues, Thurs 8:00 am - 9:15 am

RECITATION: NH 1061 Tues 9:30 am - 10:20 am

LAB: NH 3044 Mon 8:00 am - 9:50 am A SECTION  
NH 3044 Weds 10:00 am - 11:50 am B SECTION  
NH 3044 Weds 1:00 pm - 2:50 pm C SECTION

OFFICE HOURS: NH 3029 Mon 10:00 am -11:00 am  
Tues 10:30 am - 12:10 pm , Weds 12:00 - 12:30 pm 3:00 - 4:00 pm  
Thurs 9:30 - 10:50 am

Corequisite - Prerequisite: Math 2261

Calculators: The use of a programmable or a data storage calculator is forbidden during tests. If in doubt about your calculator consult Dr. Flaherty. Students may not use any electronic devices in class.

TEXT: University Physics Volume 1 by Ling, Sanny, and Moebs Open Stax  
The book is available for download in the combined Physics 2211 section in D2L.

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Grades: The final Grade will be determined by:  
Four Tests 15% each exam  
Labs 20%  
Final Exam 20%

Grade Criteria:  
90% - 100% A  
80% - 89% B  
70% - 79% C  
60% - 69% D  
0% - 59% F

Attendance: A student who has more than 20% unexcused absences may receive an F. Attendance at tests is mandatory. A scheduled doctor's appointment is not a valid excuse for missing a test. Students are not allowed to leave the room during an exam.

**Title IX Statement:** Valdosta State University (VSU) is committed to creating a diverse and inclusive work and learning environment free from discrimination and harassment. VSU is dedicated to creating an environment where all campus community members feel valued, respected, and included. Valdosta State University prohibits discrimination on the basis of race, color, ethnicity, national origin, sex (including pregnancy status, sexual harassment and sexual violence), sexual orientation, gender identity, religion, age, national origin, disability, genetic information, or veteran status, in the University's programs and activities as required by applicable laws and regulations such as Title IX. The individual designated with responsibility for coordination of compliance efforts and receipt of inquiries concerning nondiscrimination policies is the University's Title IX Coordinator: Maggie Viverette, Director of the Office of Social Equity, [titleix@valosta.edu](mailto:titleix@valosta.edu), 1208 N. Patterson St., Valdosta State University, Valdosta, Georgia 31608, 229-333-5463.

**Access Statement:** Students with disabilities who are experiencing barriers in this course may contact the Access Office for assistance in determining and implementing reasonable accommodations. The Access Office is located in Farbar Hall. The phone numbers are 229-245-2498 (V), 229-375-5871 (VP) and 229-219-1348 (TTY). For more information, please visit VSU's Access Office or email: [access@valdosta.edu](mailto:access@valdosta.edu).

Learning Outcomes:

Students will demonstrate knowledge of scientific and mathematical principles and proficiency in laboratory practices. Gen Ed 5

Students will use computer and information technology when appropriate Gen Ed 3

Students will express themselves clearly, logically, and precisely in writing and in speaking, and they will demonstrate competence in reading and listening Gen Ed 4

Students will apply the techniques of mathematical analysis (algebra, geometry, trigonometry, and calculus) to physical problems Physics 3

Students will effectively use computers and calculators for scientific calculation, programming, and word processing. Physics 4

## Material Covered

- Ch 1 Units and Measurement
- Ch 2 Vectors
- Ch 3 Motion Along a Straight Line
- Ch 4 Motion in Two and Three Dimensions
- Ch 5 Newton's Laws of Motion
- Ch 6 Applications of Newton's Laws
- Ch 7 Work and Kinetic Energy
- Ch 8 Potential Energy and Conservation of Energy
- Ch 9 Linear Momentum and Collisions
- Ch 10 Fixed-Axis Rotation
- Ch 11 Angular Momentum
- Ch 12 Static Equilibrium and Elasticity
- Ch 13 Gravitation
- Ch 15 Oscillations
- Ch 16 Waves

## TEST SCHEDULE

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|---------|---------------------------|
| Sept 5  | <b>TEST 1</b>             |
| Sept 28 | <b>TEST 2</b>             |
| Oct 26  | <b>TEST 3</b>             |
| Nov 16  | <b>TEST 4</b>             |
| Dec 5   | <b>FINAL EXAM</b> 8:00 am |