Course Information

Course Description
In this course, you will be introduced to some core topics in physics including the study of motion, or mechanics, and the propagation of waves in substances. Time permitting, we will also discuss basic properties of fluids and elementary ideas in thermodynamics. Through lectures, laboratories, reading and homework assignments you will learn how to use mathematics to describe simple physical processes and systems and to develop basic problem solving skills.

Prerequisites
The prerequisite for this course is Math 102M or Math 103M or Math 162M or Math166 or an equivalent course. No prior physics knowledge is assumed.

Required Material:
- *College Physics*, (10th Ed.) eText by *Young, Adams and Chastain* (2016, Pearson) with *Mastering Physics Student Access*. These resources are accessible on Blackboard and are covered by the “Course Material Fee.”
  
  **You do not need to purchase these materials separately.**

- *Physics 111 & 231 Laboratory Manual*, (available at the Bookstore)

Optional Material:
- Unbound hardcopy of the text, available for purchase through Mastering Physics.

Instructor
Professor Charles I. Sukenik
Office: 2100D PSB
Office Telephone: 757-683-3471
email: csukenik@odu.edu
Office Hours: see Blackboard

Course Website
All information regarding this class will be posted on the class’s Blackboard site.

Lectures
Monday and Wednesday, 7:10pm-8:25pm, OCNPS Room 142-144. Class time will feature a mixture of traditional lecturing, problem solving and class participation. Lectures are designed to help clarify material that you will find in the course textbook. In order to get the most from the lectures, you are strongly advised to read the appropriate textbook sections before coming to class.

Attendance
Attendance is mandatory for the laboratory portion of the class. Attendance in Lecture is optional, but strongly encouraged. You are, however, responsible for all material covered in Lecture, including any announcements.

Revised: January 2, 2018
University Honor Code
You are expected to conform to the University Honor Code in all aspects of your conduct in this course. You may work with others on the homework assignments and laboratory work, however, what you submit must represent your own understanding of the problem. Misconduct of any form will not be tolerated.

Honor Pledge: “I pledge to support the honor system of Old Dominion University. I will refrain from any form of academic dishonesty or deception, such as cheating or plagiarism. I am aware that as a member of the academic community, it is my responsibility to turn in all suspected violators of the honor system. I will report to Honor Council hearings if I am summoned.”

By attending Old Dominion University, you have accepted the responsibility to abide by this code. This is an institutional policy, approved by the Board of Visitors.

Homework
Physics is best learned by attempting to solve problems. In this way, one becomes familiar with the concepts and comfortable with the mathematical methods required. Homework assignments will be given weekly and your answers collected using Mastering Physics, accessible through Blackboard.

Although you will submit your homework answers through Mastering Physics, it is advisable for you to keep neatly written copies of your work and answers on paper for future reference and especially for exam preparation. Note: no individual extension of assignment submission dates will be given.

Homework Solutions
Homework solutions will be provided to you when the assignment is posted. You may consult the solutions at any time as you work on the homework, but to really learn the material you should always make a good faith effort to work through the homework problems before consulting the solutions.

Laboratory
Attendance is required in the laboratory portion of this course. Any student with more than one unexcused absence will fail the laboratory and hence the entire course. You must hand in a lab report to get credit for the session. If you cannot avoid missing a lab session for a legitimate reason, contact your lab instructor in advance. Any excused absences must be made up at a later time. If you do not make up an excused absence, it will be treated as an unexcused absence. You should bring a scientific calculator and a copy of the laboratory manual to each lab. Your lab instructor will detail the expected format of lab reports, the grading criteria to be applied and the procedure for completing make-up labs.
The Physics Learning Center
Help with any aspect of physics is available in the Physics Learning Center (2nd Floor Atrium of PSB), Monday-Friday 9am - 5pm.

The Physics Learning Center is a place where students can get together to work on their homework and get assistance, if needed, from physics faculty and grad students. No appointment is necessary. Students in all introductory classes are encouraged to drop by the Learning Center for help on homework, lab, lecture, other course material, or just for a place to work while in the physics building. Note: staffing of the Physics Learning Center starts the second week of classes. More info, including a detailed staffing schedule, can be found at the following link: http://www.odu.edu/physics/resources/learning-center

Examinations
This course will contain three in-class examinations and a final exam. If you must miss an exam, contact Dr. Sukenik as soon as possible. In general, make-up exams will not be given. You must have a legitimate excuse for missing an exam or you will receive a zero for the exam.

All examinations are closed book. You will be permitted to use a calculator and a formula sheet of your own construction (both sides of a 8½”×11” sheet) that may not contain any worked problems.

Exam Dates
Exam 1: Wednesday, January 31, 2018
Exam 2: Wednesday, February 28, 2018
Exam 3: Wednesday, April 4, 2018
Final Exam: Wednesday April 25, 2018 (7:00 pm – 10:00 pm)

Final Course Grade
A letter grade will be assigned at the end of the course from your course scores according to the following weighting scheme:

<table>
<thead>
<tr>
<th>Component</th>
<th>Weightage</th>
</tr>
</thead>
<tbody>
<tr>
<td>In-class exams</td>
<td>45%</td>
</tr>
<tr>
<td>Laboratory</td>
<td>15%</td>
</tr>
<tr>
<td>Homework</td>
<td>10%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>30%</td>
</tr>
</tbody>
</table>

For the in-class exams, the best 2 out of 3 exams will be counted. In calculating your class letter grade, positive trend will also be taken into account. If you have a strong finish to the course, your work later in the semester will be counted more heavily. Reminder: you must receive a passing grade in the lab to pass the course.

Accommodation: Students are encouraged to self-disclose disabilities that have been verified by the Office of Educational Accessibility by providing Accommodation Letters to their instructors early in the semester in order to start receiving accommodations. Accommodations will not be made until the Accommodation Letters are provided to instructors each semester.