Course Information

Course Content
Physics 227N/232N/262N is the second semester of a two semester, calculus-based introductory physics course. In this course, you will be introduced to some core topics in physics - electricity and magnetism, light and optics, and a few ideas from quantum physics.

Course Description
Through in-class activities, lectures, laboratories, reading and homework assignments you will learn how to use critical thinking combined with mathematics to describe simple physical processes and develop basic problem solving skills. There will be both individual and group activities. Group activities will stress teamwork and communication skills. Unlike the traditional lecture format, in this class we will rely on interactive instruction and cooperative learning.

Prerequisite / Corequisite
Prerequisites: PHYS 231N, PHYS 226N or PHYS 261N with a grade of C or better and MATH 211 with a grade of C or better. Pre- or co- requisite: MATH 212 or permission of instructor.

Required Material:
- “University Physics” by Young and Freedman, 14th ed.
- MasteringPhysics Student Access. Your access from Physics 226N/231N/261N is good for this class also. If you have a used copy of the textbook you can purchase access to MasteringPhysics online. (www.masteringphysics.com).
- Physics 227/232/262 Laboratory Manual, (available at the ODU Bookstore)
- Bound notebook for your Homework Journal (recommended)

Optional Material
Spark Charts or Bar Charts for Physics
Course Website
We will be using Blackboard for our course website.

Instructor
Professor Raúl A. Briceño
Office: 325 OCNPS
Office Telephone: (757) 683-5813
email: rbriceno@odu.edu
Office Hours: Please consult Blackboard, Staff section, for current office hour information.

Class Meeting Times and Location
Tuesday and Thursday, 10:30am-12:20pm in OCNPS Room 142-144.
You must also enroll in a one lab session.

Reading Assignments
You will be given a reading assignment each week. You may be given a few reading assignment questions on occasion. It is essential that you complete your reading assignments.

Homework
Physics is best learned by attempting to solve problems. This will allow you to become familiar with the concepts and comfortable with the mathematical methods required. A good portion of in-class time will be spent working on problems. In addition, you will be given one Homework Assignment each week. You will submit your homework solutions online using MasteringPhysics. Assignment solutions will be posted on the Blackboard Physics 227N/232N/262N website.

MasteringPhysics
Once logged in to MasteringPhysics, you should put yourself on the class list for this course using the course ID code RBRICENO2017.

Homework Journal
You should also keep a "homework journal" which shows how you solved the problems from the homework assignments. Written work must show labeled diagrams, defined variables, the appropriate physics equation(s), the mathematical solution and units.

Group Work
Many class activities will require you to work in a group of 2-3 students. Formal group member assignments may be made, if needed, and groups may be periodically changed throughout the semester.

**Laboratory**
There are possible laboratory sessions meet on Wednesday, Thursday, and Fridays. You only need to attend one. Your Laboratory Instructor will provide you with complete details and expectations regarding labs and lab reports. You are allowed only one unexcused lab absence. If you have more than one unexcused lab absence, **you will fail the course.**

**Examinations**
This course will contain three in-class examinations and a comprehensive final exam. If you must miss an exam, contact Dr. Briceño as soon as possible. Make-up exams may be given on a case-by-case basis, but **you must have a legitimate reason** 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 the Chapter Summary from the textbook.
Exam Dates
Exam 1: Tuesday, September 26, 2017
Exam 2: Tuesday, October 24, 2017
Exam 3: Tuesday, November 21, 2017
Final Exam: Thursday, December 14, 2017: 12:30pm – 3:30pm.

Final Course Grade
A letter grade will be assigned at the end of the course on the basis of numerical scores obtained from the three in-class exams, the final exam, homework assignments, lab reports, and trend. Your score will be calculated two ways. The higher of the two will be used to assign your letter grade.

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<thead>
<tr>
<th>Formula One</th>
<th>Formula Two</th>
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<tbody>
<tr>
<td>In-class exams</td>
<td>45%</td>
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<tr>
<td>Final Exam</td>
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<td>Labs</td>
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<td>Homework Assignments</td>
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<td>In-class exams</td>
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<td>Final Exam</td>
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<td>Labs</td>
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<td>Homework Assignments</td>
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Attendance
Attendance is mandatory. If you have to legitimately miss a class, it is your responsibility to find out what you missed. Additionally, if you know that you are going to be absent, please inform your group members so they are prepared to be short-handed that day.

The Physics Learning Center
Help with any aspect of physics is available in the Physics Learning Center (2nd floor 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](http://www.odu.edu/physics/resources/learning-center)
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, however, what you submit must represent your own understanding of the problem. Submitting answers online for problems that you have not worked out is cheating. Misconduct of any form will not be tolerated. If you are ever unsure of what is permissible, please consult with Dr. Briceño for clarification.

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.