

# Physics 203 – Spring 2019 - Prof. O'Connor

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Class (CRN 32109) 6:00 - 7:15 M, W

Discussion (CRN 32110) 7:15 - 8:30 M

Lab (CRN 32111) 7:20 - 10:00 W

Office Hours: 5:30 - 6:00 M, W

## I. Textbooks:

A. *Physics* by Serway (9<sup>th</sup> Edition) – Or comparable text

B. Calculator: A non-programmable calculator for tests and quizzes.

## II. Grading

### A. Distribution

1. Laboratory: 25% of final grade (Some concepts also assessed in tests and Final Exam)
2. Lecture: 75% of final grade
  - a. Two Tests - 20% each (Final exam may substitute for one if the Final exam score is better)
  - b. Discussion Questions/ Quizzes (Mondays where there is no test that week) - 5% (best 8 scored)
  - c. Independent Assignment - TBD - 5%
  - d. Final Exam - 25%

**B. Tests** – there will be two tests and one final exam. The two tests will each count 20% of the over-all grade. The tests will start promptly at 6:00 on the posted day and conclude at 7:30 regardless of the time the student enters the room. The final exam will take place on May 8 and will start at 6:00. Please contact me if you have any scheduling conflicts.

### C. Adjustments

1. Incomplete work: Unexcused absence of tests or labs will result in major downward adjustments to the final grade. Employment requirements will not be accepted as an excuse for late or missing assignments nor will it be allowed as an excuse for a missed assessment (Test/Exam).
2. The professor reserves the right to record a failing grade for the student if the student misses more than one lab or fails to submit all the appropriate lab reports. In any case, the student may miss (with a zero recorded for the grade) no more than two lab reports
3. Make-up work: There will be no make-up tests. The final exam, ordinarily worth 25% of the grade, may also be substituted for one of the tests if the exam grade exceeds, by percentage, the lowest score on one of the tests.

If you miss a laboratory, you should contact me as soon as possible to determine an appropriate make-up arrangement.

#### **D. Audit**

1. Requirements - You must continue to attend all classes and participate in lab if you switch from credit to audit.
2. If you do not meet the requirements, your grade will be changed to a withdrawal

### **III. Laboratory Procedure**

**A. Attendance:** required unless sick or excused. You must complete a make-up assignment if you are absent for a laboratory. If anyone has more than two unexcused absences from lab, they receive an F for the course.

#### **B. Lab Reports**

The reports will be “group” informal reports due by the beginning of the next class (lecture). All members of the lab group must sign the report prior to leaving the laboratory in order to receive credit for the lab. These reports will primarily consist of data, calculations, and error analysis.

**C. Lab Examination/Quizzes** - There will be a final lab examination conducted at the end of the semester and you may use your lab notes during this exam. Part of this exam will consist of written questions and the remainder will require that you demonstrate your ability to use lab equipment properly to obtain accurate data. Daily lab quizzes will be conducted before every lab session.

#### **D. Lab Grades (25% over-all)**

1. Weekly Lab Quizzes (Wednesdays) 5% (best 8 scored)
3. Group informal reports 10%
4. Lab Final 10%

### **IV. General Information**

**A.** The course outline sheet indicates the approximate pace at which the material in the textbook will be covered. It is always your assignment to read the textbook before lecture. If you do this, you will be better prepared to ask questions during class on topics which you find confusing.

**B. Homework:** The problems listed on the course outline should be done each week prior to discussion class. You are expected to participate in discussion.

**C.** If you have any problems with lecture or lab, please feel free in contacting me at my e-mail address or to come to my scheduled office hour (one-half hour before class) or by making an appointment.

**D.** Please make sure that you obtain and read a copy of the current Student Handbook which contains the Student Code of Conduct.

**E. Students with Disabilities:**

The following is the official College policy concerning students with disabilities: *Any student who may need an accommodation due to a disability, please make an appointment to see me during my office hour. A letter from Disability Support Services authorizing your accommodations will be needed. Any student who may need assistance in the event of an emergency evacuation must identify to [sic] the Disability Support Services Office, which is located at 122CB.*

**F. Letters of Recommendation:**

Universities seldom recognize letters of recommendations where the writer knows the applicant for a time period of only one semester or less unless the applicant has been working with the instructor on a special project such as in an internship. For guidance consult the following reference from Norwich University.

[http://careers.norwich.edu/wp-content/uploads/2013/12/Requesting Letters of Recommendation.pdf](http://careers.norwich.edu/wp-content/uploads/2013/12/Requesting_Letters_of_Recommendation.pdf)

**G. Important Dates:**

Last date to drop with refund: 29 January

Last date to drop w/o W or change to audit: 12 February

Last date to Withdraw: 16 April

# Physics 203 Spring 2019

(subject to change)

<b>Week</b>	<b>Chapter</b>	<b>Suggested Homework (from Serway 9<sup>th</sup> ed.)</b>	<b>Laboratory</b>
1/23	1	<b>1:</b> 7, 8, 9, 10, 18, 23, 51, 55	Statistics in Physics
1/28-1/30	2	<b>2:</b> 1, 3, 6, 7, 16, 20, 22, 24, 26, 29, 32, 35, 43, 39, 47, 50, 52, 58, 61, 69	Measurement and Uncertainty
2/4 – 2/6	3	<b>3:</b> 1, 2, 9, 10,12, 14, 16, 18, 22, 24, 30, 31, 32, 35, 38, 39, 55, 58, 60, 70, 73	Free Fall
2/11 – 2/13	4	<b>4:</b> 1, 3, 5, 8, 12, 13, 15, 17, 18, 19, 26, 27, 30, 34, 35, 37, 41, 49, 50, 52, 68, 77	Projectile Motion
2/18 – 2/20	5	<b>5:</b> 3, 5, 13, 15, 16, 17, 23, 25, 28, 31, 33, 42, 48, 53, 56	Vectors/ Translational Equilibrium
2/25 – 2/27	6	<b>6:</b> 1, 4, 9, 11, 16, 18, 20, 33, 35, 43, 52, 58	Inclined Plane with Friction
3/4 - 3/6	7	<b>7:</b> 2, 4, 10, 17, 21, 24, 28, 33, 35, 43	The Pendulum
3/11 – 3/13		Spring Break	
3/18 – 3/20	8	<b>8:</b> 1, 12, 19, 22, 23, 25, 29, 35, 36, 39, 50, 60	Ballistic Pendulum
3/25 – 3/27	9	<b>9:</b> 5, 13, 16, 24, 26, 27, 28, 36, 41, 42, 45	Centripetal Motion
4/1 – 4/3	10	<b>10:</b> 1, 5, 11, 13, 21, 28, 35, 37, 41, 52	Torque
4/8 – 4/10	11	<b>11:</b> 2, 7, 10, 12, 15, 20, 22, 31, 33, 39, 44	Buoyancy
4/15 – 4/17	12	Thermodynamic Processes	Specific Heat
4/22 – 4/24	13	Vibrations and Waves (HW TBD)	Simple Harmonic Motion
4/29 – 5/1	14	Sound (HW TBD)	Lab Test
5/6 – 5/8		Review (5/6) and Final Exam (5/8)	