

COURSE OUTLINE

PHY130 – Physics I

CRN: 94734 Credits: 3

Instructor: Prof. Glenda Denicoló (PhD) e-mail: denicog@sunysuffolk.edu

Instructor office hours (my office is T-218): Mon 1:30–2pm; Tue 2:30–4pm; Wed 10:30–11am; Thu 2:30–4pm

Online hours (not on campus): Wed 7–8pm.

Hours of physics tutors at the Help Center: posted on T-16 or online at <http://gdenicolo.net>

GRADE POLICY

The final course grade will be based on a combination of 9 homeworks, 4 non-cumulative tests and 1 cumulative final exam. The final exam is optional and can replace the lowest grade of a test. At the end, only 4 test grades will be used.

Make-up will be allowed only ONCE for the non-cumulative tests and ONLY to students who show DOCUMENTATION proving an emergency. If you do NOT have a document (example: from hospital, doctor, police, jury duty) proving your emergency, THERE WILL BE NO make-up. Once a student presents a document, he/she MUST schedule a make-up with the professor within 24 hours of the missed test. There will be no make-up for the final exam.

HOW TO COMPUTE YOUR FINAL GRADE:

Homework (total of 9 – 1).....8%

VPython coding exercises (8).....8%

Each test21% (4 x)

Final exam (optional).....21% (if taken, the final exam will replace the lowest of the 4 tests)

Assessment survey as extra credit.....1% (2 x)

There will be NO curving of the grades in this course. Your final grade is non-negotiable. This is the letter grade breakdown that will be used throughout the semester:

89.5 ≤ A ≤ 100

84.5 ≤ B+ ≤ 89.4

79.5 ≤ B ≤ 84.4

74.5 ≤ C+ ≤ 79.4

69.5 ≤ C ≤ 74.4

64.5 ≤ D+ ≤ 69.4

59.5 ≤ D ≤ 64.4

F ≤ 59.4

Important Note:

At the end of the course, once all the grades are in, a 69.1 for example, translates into a D+ and never to a C. Students must understand what it means when we say “YOUR FINAL GRADE IS NOT NEGOTIABLE”. It means the grade breakdown shown IS FIRM. A difference of even 0.1 point in your final grade is NOT NEGOTIABLE. You are warned about this since the first day of classes, so you must prepare accordingly. The main benefit of extra credit assignments is to help students bump up their final grades by up to a letter grade (remember that you are given the opportunity to receive up to 4 extra credit points during the course). At the end of the course, no other activity will be given in order to change your final grade: at the end of the course, after your last test, it is OVER.

According to the Family Educational Rights and Privacy Act (FERPA), **grades will never be discussed via e-mail or phone, only in person.**

HOMEWORK (to be done *INDIVIDUALLY* always)

Nine homework assignments will be given throughout the semester. Each homework will be comprised of about 10 problems. After the homework is returned, the professor will use a die or any other random method to select one problem for correction. In other words, only one problem –selected by chance, in class– will be graded, out of the ~ 10 problems originally given. The remaining problems will not be considered for grading at all. Answers to the homework problems will be made available online (Bb) after the deadline.

Your homework must present complete solutions; these are the guidelines for a successful homework (and tests):

- You *must* clearly show your work for each step of each problem, no matter how trivial the step might be.
- You *must* show your reasoning in a mathematical or numerical manner, even if the problem does not explicitly say so.
- You *must* show that each step follows logically from the previous one. If you have tried several different ways of doing the same problem, you will *not* get partial credit unless your work shows a logical progression.
- You *must* present your work in a legible manner.

- *You will not get any credit even if the final answer is correct but the work shown does not support it.*
- You will lose points anytime there is a conceptual mistake at an intermediate step even if the final answer is correct.

ABSENCE POLICY

Students absent from more than 2 lectures without a well-documented justification may be dropped from the course.

E-MAIL COMMUNICATION WITH THE INSTRUCTOR

E-mail is the preferred means of communication with your instructor. The instructor will ALWAYS reply to your message within 24 hours (with the exception of weekends and holidays). If your instructor does not reply within 24 hours it is because you did NOT succeed in sending the message, and it is YOUR RESPONSIBILITY to check whether you used the correct e-mail address. In the case of an emergency, you are allowed to submit one extra credit activity, or one homework assignment, via e-mail, *before* the deadline. However, a printed/paper copy of your work should ALWAYS be provided to the instructor in the following class.

Notice that in the case of an emergency, the instructor may also try to get in touch with you via e-mail. The instructor will write an e-mail to your official college e-mail address (ending in @sunysuffolk.edu). This is the e-mail address you should be reading at all times concerning SCCC official announcements.

WITHDRAWAL POLICY

This instructor will NOT grant "W" after the mid-semester cutoff to any student, unless a very well justified case comes up, with documentation proving this extreme case. Mid-semester cutoff for Fall 2018: *Wednesday, Oct 31st*. Only students who submit a course withdrawal form on or before this date are guaranteed a grade of "W".

Please note that this means if you stop attending class without officially withdrawing in the time period provided, you will very likely be given an F by your instructor. It is common courtesy to communicate to your instructor the fact that you are leaving the course. If you have a failing (F) average after the mid-semester cutoff, you will be given an F rather than a W as your final grade, even if you stop attending class.

ADA STATEMENT

Suffolk County Community College provides reasonable accommodations to registered students with disabilities who have self-identified and been approved by the Office of Disability Services. Once approved for reasonable accommodations, such students will be provided with a laminated letter, describing the specific accommodations. Students must present this laminated letter to each of their professors before accommodations can be provided.

Students who have, or think they may have, a disability are invited to contact Disability Services for a confidential consultation. Call the Disability Services Office at 631-451-4045, email the Office at <mailto:disabilityserv-ammr@sunysuffolk.edu> or stop by to make an appointment at Room 202 in the Ammerman Building. For more information regarding the College's commitment to ensuring accessibility and non-discrimination please see: www.sunysuffolk.edu/accessibility/ and www.sunysuffolk.edu/nondiscrimination

CRITICAL INCIDENT MANAGEMENT

SCCC expects students to respect the rights, privileges, and property of other people. Faculty are required to report to the Dean of Students Services any disruptive behavior that interrupts their ability to teach, compromises the safety of the learning environment, and/or inhibits students' ability to learn. The Office of the College Associate Dean of Students and/or the Campus Associate Dean of Student Services shall maintain all records of documented acts of academic dishonesty.

ACADEMIC INTEGRITY STATEMENT

Each student must pursue his or her academic goals honestly and be personally accountable for all submitted work. Representing another person's work as your own is always wrong. Faculty is required to report any suspected instance of academic dishonesty to the Campus Associate Dean of Students Services. For more comprehensive information on academic integrity, including categories of academic dishonesty, please refer to the Student Code of Conduct at the website at: http://libguides.sunysuffolk.edu/academic_integrity_for_students

Special Procedures for Academic Dishonesty (extracted from the Student Code of Conduct)

If a faculty member concludes that a student has committed an act of academic dishonesty, the faculty member may initiate student conduct action through the College Associate Dean of Students and/or may notify the student that s/he has imposed any of the following penalties:

1. require that the student repeat the assignment or the examination; or
2. give the student a failing grade for the assignment or examination; or
3. give the student a failing grade in the course and deny the student continued access to the class.

PHY130

CRN 94734

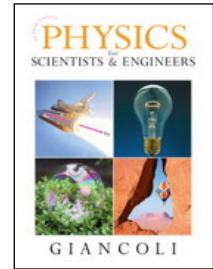
Tuesday 4–5:50 pm (T-12)

Thursday 4–5:50 pm (T-12)

	DATE	COVERED TOPICS		DATE	COVERED TOPICS
Week 1			Week 9	(official mid-semester: Oct 31)	
Tue	Sep 04	Chap. 1, § 2.1–2.4	Tue	Oct 30	§ 8.3–8.5; due: H6
Thu	Sep 06	§ 2.5–2.6	Thu	Nov 01	§ 8.6–8.8
Week 2			Week 10		
Tue	Sep 11	§ 2.7–2.9; due: H1	Tue	Nov 06	§ 9.1–9.4; due: H7
Thu	Sep 13	§ 3.1–3.6	Thu	Nov 08	§ 9.5–9.6
Week 3	Upload H2 on Bb before 11 pm Wed Sep 19		Week 11	Upload H8 in Bb before 11 pm Wed Nov 14	
Tue	Sep 18	§ 3.7–3.9	Tue	Nov 13	§ 9.7–9.8
Thu	Sep 20	Test 1	Thu	Nov 15	Test 3
Week 4			Week 12		
Tue	Sep 25	Force diagrams, § 4.1–4.6 due: coding exercises (1, 2)	Tue	Nov 20	§ 10.1–10.6 due: coding exercises (5, 6)
Thu	Sep 27	§ 4.7–4.8	Thu	—	
Week 5			Week 13		
Tue	Oct 02	§ 5.1; due: H3	Tue	Nov 27	§ 10.7–10.9
Thu	Oct 04	§ 5.1–5.3, 5.5	Thu	Nov 29	§ 11.1–11.3
Week 6			Week 14		
Tue	—	<i>No class (Prof. Dev. day)</i>	Tue	Dec 04	§ 11.4–11.6
Thu	Oct 11	§ 5.4, 5.6; due: H4	Thu	Dec 06	Chap 13: §1–10; due: H9
Week 7	Upload H5 in Bb before 11 pm Wed Oct 17		Week 15		
Tue	Oct 16	§ 6.1–6.4	Tue	Dec 11	Test 4
Thu	Oct 18	Test 2	Thu	Dec 13	Final Exam due: coding exercises (7, 8)
Week 8					
Tue	Oct 23	§ 7.1–7.4 due: coding exercises (3, 4)			
Thu	Oct 25	§ 8.1–8.3			

Required textbook:

Physics for Scientists and Engineers, 4/E
by Doug Giancoli
Publisher: Addison-Wesley
Chapters 1 to 37; without Modern Physics.



Please acquire the complete version, avoid splitting in volumes.

SOME INTERESTING PROBLEMS:

Basically all problems of difficulty I and II are inside the level of knowledge expected of PHY130 students. You should tackle those even if they are not explicitly mentioned below.

Chapter 1

Questions: all

Problems: 11-23, 36, 37, 41, 45, 51, 57, 65

Chapter 2

Questions: all

Problems: 3, 6, 8, 9, 11, 12, 14, 15, 16, 18, 19, 23, 24, 27, 28, 29, 32, 33, 35, 36, 40, 42, 43, 44, 46, 47, 48, 50, 51, 52, 55, 57, 58, 60, 61, 64, 67, 68, 69, 70, 71, 72, 73, 76, 78, 80, 81, 82, 83, 87, 93

Chapter 3

Questions: all

Problems: 1, 2, 3, 6, 7, 8, 9, 10, 17, 18, 21, 22, 26, 29, 31, 32, 33, 34, 35, 37, 38, 41, 43, 44, 46, 57, 58, 61, 64, 65, 66, 67, 69, 71, 73, 75, 77, 78, 81, 84, 85, 87, 88, 93, 94, 95

Chapter 4

Questions: all

Problems: 3, 5, 7, 8, 9, 10, 11, 12, 13, 15, 17, 18, 19, 21, 22, 24, 27, 31, 32, 33, 35, 36, 37, 40, 41, 43, 46, 48, 49, 50, 51, 52, 54, 57, 58, 60, 62, 63, 64, 67, 68, 70, 74, 75, 77, 83, 86, 87, 88

Chapter 5

Questions: all

Problems: 1, 2, 3, 4, 7, 9, 11, 12, 17, 18, 19, 20, 22, 23, 26, 27, 28, 29, 30, 31, 32, 34, 35, 36, 40, 41, 42, 43, 44, 45, 47, 48, 49, 51, 53, 55, 62, 64, 66, 68, 69, 77, 78, 79, 80, 81, 82, 83, 84, 85, 87, 88, 89, 95, 101

Chapter 6

Questions: all

Problems: 1, 2, 3, 4, 5, 6, 7, 8, 11, 12, 14, 15, 23, 25, 27, 29, 31, 32

Chapter 7

Questions: all

Problems: 1, 2, 3, 4, 5, 7, 8, 9, 11, 13, 14, 15, 16, 18, 20, 21, 22, 27, 29, 34, 35, 37, 38, 40, 41, 43, 46, 47, 49, 50, 51, 52, 53, 56, 57, 59, 61, 63, 64, 66, 71, 72, 75, 77, 79, 82, 83, 86

Chapter 8

Questions: all

Problems: 1, 2, 3, 4, 6, 7, 8, 9, 10, 11, 13, 15, 20, 21, 22, 23, 25, 26, 29, 31, 34, 36, 37, 39, 42, 47, 49, 51, 57, 59, 62, 63, 65, 67, 69, 70, 73, 83, 85, 87, 88, 90, 91, 92, 95, 99, 102

Chapter 9

Questions: all

Problems: 1, 2, 3, 4, 5, 7, 9, 10, 13, 15, 19, 22, 23, 25, 28, 29, 35, 37, 40, 41, 42, 44, 47, 49, 50, 51, 54, 55, 56, 61, 63, 64, 69, 70, 72, 74, 75, 77, 85, 89, 94, 97, 99, 100, 103, 105, 106, 107, 112

Chapter 10 (and 12 for Rotational Statics only)

Questions: all

Problems: 1, 2, 3, 4, 5, 6, 8, 14, 15, 16, 17, 18, 21, 23, 25, 27, 29, 30, 31, 32, 35, 37, 40, 41, 46, 47, 50, 51, 55, 57, 58, 59, 62, 63, 64, 65, 67, 70, 71, 72, 73, 75, 85, 94, 95, 99, 103

Chapter 12 (§12.1-2: only Rotational Statics)

Problems: 15, 18, 20, 21, 32

Chapter 11

Questions: all

Problems: 1, 2, 3, 5, 9, 10, 11, 13, 19, 20, 21, 22, 23, 24, 27, 32, 33, 34, 37, 38, 39, 41, 47, 48, 49

Chapter 13

Questions: all

Problems: 1, 7, 10, 13, 16, 21, 26, 27, 28, 31, 39, 43, 44, 47, 49, 55, 57

IMPORTANT DISCLAIMER:

General rules are printed in your course outline. But even if a rule is not *specifically* printed on your course outline, it may be announced only in class and it is a valid new rule that must be followed. If there are changes to any existing rules, these too will be announced in class whether or not they are in print.

Students are responsible for apprising themselves of *anything* that transpires in class whether or not they are in attendance. **All students need to be aware of all announcements.** Ask another student. E-mail the professor and ask to update you on any new announcements. If you have missed a class, you have to ask.

Professors are not “babysitters”, i.e., they will not remind you all the time of the requirements presented in the course outline: you have the responsibility to know what is expected strictly from you.

All students are personally accountable for all submitted work.

You must keep track of your own progress in class. Calculate your average grade at all times; estimate your own final grade to know where you are heading: this estimate only requires basic math knowledge!

You are responsible for the grade you receive.

Professors are just messengers in the classroom: the grade you get is not “given” by the professor – it is **the grade that you gave to yourself**, in direct correspondence to how much YOU have studied and learned about the subject. Taking responsibility for your own acts and taking responsibility for your own work is a good rule for life.

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cut here ✂

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Please return this signed slip within the first week of classes.

I have read and I am aware of all the information contained in the course outline of PHY130.

Name (please print): _____

Date: _____

Your signature: _____