Physics 1202Q - Spring 2011

Professor Harold L. Grubin
Email: grubin@phys.uconn.edu; Voice: 860.486.2903; Office: PB219
Office Hours: Tuesdays & Thursdays 9:30 AM -10:30 AM

Course Text: Cutnell & Johnson, *Physics, Eighth Edition*, John Wiley & Sons, Inc.
Laboratory Manual: Purchase at UConn Coop.
Clickers: Purchase at UConn Coop. To be used for class participation, quizzes and examinations.
General Course Information: `http://huskyct.uconn.edu`. Announcements, syllabus, Lecture notes, grades, and other relevant course information will be posted on HuskyCT, which should be visited on a regular basis.

Lecture Sections: Table 1

Laboratory Sections: Table 2.

Laboratory Topics and Schedule: Table 3.

Homework Assignments: Homework problems are posted online through "WileyPlus": `http://www.wileyplus.com`. You will need to self-register following the instructions on the document "Welcome to WileyPlus", posted on HuskyCT. The linking URLs are displayed in Table 4. Homework must be submitted for grading via the link on the website on or before the due date. Late submissions are subject to a 5% reduction in the maximum score. No exceptions. All problems are listed online as are the submission dates. The submission dates fall into three blocks: the first block is due after the first midterm examination, the second block is due after the second midterm examination, the last block is due the last day of classes, 29 April 2011. Access to "WileyPlus" ends the last day of classes, 29 April 2011.

Reading Quizzes: A goal of this course is to enable you to understand basic concepts of physics and how these concepts influence us, every day. The textbook assigned to you is one of a new set of recently revised physics texts that emphasizes problem solving, conceptual understanding, and technique. When you come to class you should understand why a particular topic is studied and how it relates to other things we have done. The reading quizzes are designed to test your understanding of why. Your ability to problem solve and answer conceptual questions is tested in the HW, two midterm examinations and the final examination. The reading quizzes will be given at varying class times, will involve the use of "clickers" and will count for a maximum of 5 (five) points.

Class Participation: Class participation will be recorded primarily through the "clickers" and will count for a maximum of 5 (five) points. Those participating will record of grade of at least 4 points.
Final Examination: The final exam is also mandatory. Final exam week is listed in Table 5. Students are required to be available for their exam during that time. Students must visit the Dean of Students Office if they cannot make their exam. The Dean of Students will give the student his or her instructions thereafter.

Lecture and Examination Schedule: See Table 6.

Final Grade: Based upon your final numerical value, with component contributions weighted as in Table 7, and with adjustments based upon class standing.

Lab Policies: Web site: `http://www.phys.uconn.edu/labs`. Attendance is required at all labs without exception. If you miss a lab, visit the FAQ at `http://www.phys.uconn.edu/labs/policies.html` for instructions on what to do. Missing two or more labs will result in an incomplete for the entire course. Satisfactory completion of the lab is required as part of your course grade. Those with a lab average below 60% will receive a semester grade of F for the entire course.

Physics Learning Resource Center: This is a service provided by the Physics Department to students seeking help in their studies or wishing to deepen their understanding of physics. The center is located in room P207-C in the Physics Building. The center's website is: `http://www.phys.uconn.edu/labs/PLRC.html`.

Academic misconduct: See: `http://www.community.uconn.edu/student_code_faq.html`, describing the zero-tolerance policy for any form of academic misconduct.

Statement on disabilities: Students with disabilities who may need academic accommodations should discuss options

with the instructor. See also: `http://www.csd.uconn.edu/`

Statement on Absences from Class, Missed Work, Student Activities: I will accommodate student requests to complete work missed by absence resulting from extra-curricular/cocurricular activities performed in the interest of the university and/or those that support the scholarly development of the student. Students involved in such activities should inform me in writing prior to the anticipated absence and take the initiative to make up missed work in a timely fashion.

Table 1: Lecture Sections

Lecture Section	Time	Room
Phys1202Q-001	Tuesdays & Thursdays 11:00 AM - 12:15 PM	PB 38
Phys1202Q-021	Tuesdays & Thursdays 8:00 AM - 9:15 AM	BPB 130.

Table 2: Laboratory Sections & Hours

Sections	Laboratory Hours	Day	Room
001L	9:00AM - 12:00 PM	Mo	PB 202
002L	1:00PM - 4:00 PM	Mo	PB 202
003L	5:00PM - 8:00 PM	Mo	PB 202
004L	1:00PM - 4:00 PM	Tu	PB 202
005L	5:00PM - 8:00 PM	Tu	PB 202
006L	9:00AM - 12:00 PM	Fr	PB 202
021L	5:00PM - 8:00 PM	We	PB 202
022L	5:00PM - 8:00 PM	Th	PB 202
023L	1:00PM - 4:00 PM	We	PB 202
024L	1:00PM - 4:00 PM	Th	PB 202
025L	9:00AM - 12:00 PM	We	PB 202
026L	9:30AM - 12:30 PM	Tu	PB 202
027L	5:00PM - 8:00 PM	Tu	PB 206

Table 3: Laboratory Schedule & Topics

Week Beginning	Topic
17 Jan	No Lab
24 Jan	No Lab
31 Jan	Electric Fields
07 Feb	Ohm's Law 1
14 Feb	Ohms Law 2
21 Feb	AC Circuits 1
28 Feb	Magnetic Fields
07 Mar	Spring Break
14 Mar	AC Circuits 2 (Induction)
21 Mar	Spectroscopy
28 Mar	Interference of Light
04 Apr	Interference of Sound
11 Apr	Lens Equation
18 Apr	Radiation
25 Apr	Make-up/Review
02 May	Finals Week

Table 4: WileyPlus Links

Section	URL Link
P1202Q-001	`http://edugen.wiley.com/edugen/class/cls211004/`
P1202Q-021	`http://edugen.wiley.com/edugen/class/cls211005/`

Table 5: UConn-Storrs Academic Calendar

Tues	18 Jan	Spring semester begins
Mon	24 Jan	Last day to file petitions for course credit by examination
Mon	31 Jan	Courses dropped after this date will have a W for withdrawal recorded on the academic record Last day to add or drop courses without additional signatures Add/Drop via Student Administration System closes Last day to place courses on Pass/Fail
Mon	7 Feb	Last day for students to make up Incomplete or Absence grades
Tues–Mon	8-14 Feb	Examinations for course credit by examination
Tues	15 Feb	Deans signature required to add courses
Fri	25 Feb	Mid-semester progress reports due students from faculty
Sun	6 Mar	Spring Recess Begins
Sat	12 Mar	Spring Recess Ends
Mon	21 Mar	Registration for the Fall 2011 semester via Student Administration System begins
Sat	26 Mar	Emergency closing class make up date
Mon	28 Mar	Last day to drop a course Last day to convert courses on Pass/Fail option to letter grade
Fri	29 Apr	Last day of spring semester classes
Mon	2 May	Final examinations begin
Sat	7 May	Final examinations end
Sun	8 May	Undergraduate commencement ceremony

Table 6: Lecture & Examination Schedule

Week Beginning	Chpt	Topics
17 Jan	18	Electric forces and electric fields
24 Jan	19	Electric potential energy and the electric potential
31 Jan	20	Electric circuits
07 Feb	21	Magnetic forces and magnetic fields
14 Feb		First Midterm Exam (Chapters 18-21)
	22	Electromagnetic induction
21 Feb	22	Electromagnetic induction
	23	Alternating current circuits
28 Feb	24	Electromagnetic Waves
07 Mar		Spring break
14 Mar	25	The reflection of light; mirrors
	26	The refraction of light, thin lenses
21 Mar	26	The lens equation; optical instruments
	27	Interference
28 Mar		Second Midterm Exam (Chapters 22-26)
	27	Interference and the wave nature of light
04 Apr	28	Special relativity
11 Apr	29	Particles and waves
18 Apr	30	The nature of the atom
25Apr	31	Nuclear physics and radiation
02 May		Preliminary Final Examination Schedule Phys1202Q-001, Tuesday, 3 May 2010, 10:30AM-12:30PM Phys1202Q-021, Tuesday, 3 May 2010, 8:00AM-10:00AM

Table 7: Grading Distribution

Grade Component	Weight
Reading Quizzes	5%
Class Participation	5%
Homework	20%
Laboratory	25%
First Midterm Examination	10%
Second Midterm Examination	10%
Final Examination	25%