Engineering Physics II Sum 2010

Syn 12153 PHY 2426 sect 003

Lecture	Tue/ Thurs,	6:00 pm - 7:50 pm	Room 328
Lab	Tue/ Thurs,	8:00 pm - 9:50 pm	Room 327

Office	Mon–Thurs,	11:30 am - 12:00	Room 325.1
	Tue/ Thurs,	5:30 pm - 6:00 pm	phone 223- 3303

week	chapter (section)	event	lab
June 1, 3	21, 22		oscilloscope
June 8, 10	23, 24		capacitance
June 15, 17	25	*test*	permittivity
June 22, 24	26		magnetic field
June 29, July 1	27		magnetic induction
July 6, 8	28		ac circuits 1
July 13, 15	29		ac circuits 2
July 20, 22	30	*test*	refraction
July 27, 29	31, 32		Brewster
Aug 3, 4	32, 33		diffraction, interference
Aug 10, 12	*review*	*test*	~~*labs due Aug 10*~~

It is very important that you are registered for class at this time. This will be checked, and you risk losing time and money if matters are not as they should be. See me immediately if there is any doubt.

Attendance is very important, and will be recorded for both class and labs. Being present for tests is mandatory. Test make-ups should be cleared **before** missing a test. Lab make-ups will be available on Fridays.

Tests

June 17	Chapters 21, 22, 23, 24	*(100 pts)*
July 22	Chapters 25, 26, 27, 28, 29	*(100 pts)*
Aug. 12	Chapters 30, 31, 32, 33, 34 * **this test is cumulative**	*(150 pts)*

Ch	Homework	Ch	Homework
21	41, 57, 60	28	25, 41, 51
22	14a,b, 18a, 48	29	31, 35, 62, 64
23	38, 47, 70	30	40, 46, 50
24	53, 74	31	40, 53a, 69
25	62, 86, 92	32	31, 95, 97a,b
26	16a, 28, 44	33	24, 37, 60, 85a
27	31, 41, 53		

Your grade consists of a lab book, homework and the three test grades. The first two tests will each count 100 points, and the final is 150 points; the lab is 150 points and homework is 100 points. Your points earned will be divided by 600 (the maximum number of points possible) to give a numerical grade.

You need to be present for tests. Make-ups should be cleared before missing a test. The first two tests are worth 100 points each. Your last test is cumulative and is worth 150 points.

Your lab notebook should be the spiral type, preferably with squared paper. Data goes into it during the lab, and the report is written on the pages following. Your lab notebook is handed in at end of semester, and has the weight of 150 points or equivalent to the final. Don't put off writing things up until the end of semester! You won't have time then, and something may not have been properly recorded.

Homework is handed in weekly and up to 100 points given on it. Your homework will be picked up on each Wednesday following the week of the corresponding chapter. You can ask at any time about a homework problem, but give it a try before asking. Remember, in doing homework, as everywhere else, it's important to explain as much as you can about what you are doing. Please don't run different chapters together, keep them separate.

My email address is <gink@austin.rr.com> You can often reach me at 478-8125. Office hours are one hour before class on Monday through Thursday. Check online for class syllabi, homework assignments, and other information.

ENGINEERING PHYSICS II PHYSICS 2426 section 003
SYNONYM: 12153 4 credits instructor: David Potter Spring 2010

COURSE DESCRIPTION: Calculus-based study of electricity and magnetism, geometric and physical optics, and modern Physics. This is the second half to the calculus-based PHYS 2425/2426 sequence.

PREREQUISITES : 1. PHYS 2425 or equivalent
2. Credit in MATH 2414 or its equivalent
TEXT : *Tipler, Physics for Scientists and Engineers, 6th edition vol 2*
OTHER : Scientific calculator
METHODOLOGY : Lecture/Lab

LECTURE: Tue/ Thurs, 6:00 pm - 7:50 pm in RGC 328
LAB: Tue/ Thurs, 8:00 pm - 9:50 pm in RGC 327

OFFICE LOCATION: RGC 325.1
PHONE NUMBER: 223- 3303
E-MAIL ADDRESS: gink@austin.rr.com
OFFICE HOURS: Mon–Thurs, from 11:30 am - 12:00
Tue/Thurs, from 5:30 pm - 6:00 pm
APPOINTMENT HOURS: call or e-mail

This is a university calculus level physics course intended for majors in engineering, physics, chemistry, mathematics, computer science and other technical and scientific majors.

OBJECTIVES:

In the lecture, to get a slightly deeper acquaintance with some important ideas of physics, and to get some practice thinking as a physicist does.

In the lab, to see some physical ideas made real, and to get some exposure to laboratory equipment, as well as to get some exposure to technical writing and using graphs and charts.

GRADING SYSTEM: points earned are divided by 600 to get a class grade

Tests:	200 points
Final Exam:	150 points
Laboratories:	150 points
Homework:	100 points

In most classes, 89 up is an “A”, 80-88 is a “B”, 65-79 is a “C” Small variations from this will be fitted to individual classes.

COURSE POLICIES:

You are encouraged to attend. Too many absences can get you dropped. Withdrawals are generally up to student.

For incompletes, see incomplete rule in college catalog (This section in the catalog is 3 paragraphs long).

Scholastic Dishonesty: Acts prohibited by the college for which discipline may be administered include scholastic dishonesty, including but not limited to cheating on an exam or quiz, plagiarizing, and unauthorized collaboration with another in preparing outside work. Academic work submitted by students shall be the result of their thought, research or self-expression. Academic work is defined as, but not limited to tests, quizzes, whether taken electronically or on paper; projects, either individual or group; classroom presentations, and homework.

Academic Freedom: Students are free to disagree with instructors on matters of opinion or personal philosophy, and will incur no penalty from doing so. However, instructors will judge student work based upon its relation to the current state of mainstream scientific fact and theory. Students are allowed to voice opinions, concerns, complaints and suggestions to the instructor. However, it is up to the instructor to decide how to use the student’s comments to meet the class’s best interests.

Student Discipline: Matters of student discipline will be adjudicated by the instructor on a case-by-case basis, in conjunction with the Task Force Leader or Dean. Students may consult with the Office of Student Services or the Associate Dean at their campus on these matters.

Office with Student with Disabilities: Each ACC campus offers support services for students with documented physical or psychological disabilities. Students with disabilities must request reasonable accommodations through the Office for Students with Disabilities on the campus where they expect to take the majority of their classes. Students are encouraged to do this three weeks before the start of the semester.

COURSE OUTLINE/CALENDAR on separate page

TESTING CENTER POLICY: Physics tests may not be given in the testing center except for make up tests.

STUDENT SERVICES HANDOUT and INSTRUCTIONAL SERVICES HANDOUT: to be handed out to student by each instructor if student already does not have copy