

PHYSICS 303L ENGINEERING PHYSICS II

Spring Semester 2009 – T-Th 9:30-11:00 pm
Unique No.: 58335, 58340, 58345, 58350 -- PAI 4.42

1) Instructor contact

- **Instructor:** Professor T. Ditmire
- **Office:** RLM 12.202
- **Email contact:** tditmire@physics.utexas.edu
- **Teaching Assistant:** TBD
Email: TBD

2) Course Materials

- **Textbook:** Ohanian and Markert, Physics for Engineers and Scientists, Vol 2.
- **Reference:** 303L-IQ-library: <http://www.ph.utexas.edu/~itq/iq/303L/iqL.html>
- **iClickers:** We will be using the iClicker system in the class. Use is purely optional, however, extra credit on the final exam will be available for those of you who participate with the iClickers in lecture. More detailed instructions and FAQ can be found at: <http://cns.utexas.edu/quest/support/student/#iClicker> Once you procure an iClicker you will then enter the serial number (listed on the back) in “MY PROFILE” in your QUEST account.

3) Course web site

- Copies of course materials, latest announcements and important links can be found at the course website: <http://www.ph.utexas.edu/~phy303lt>

4) Homework problem sets and the QUEST website

- **Enrolling:** Please enroll yourself on the QUEST homework service. You will do this at: <http://quest.cns.utexas.edu/student>
When you enroll, this class should automatically appear in your account. If not, please contact Patsy McDonald (patsymc@physics.utexas.edu). You can get help at <http://cns.utexas.edu/quest/support/student>
- **Problem set distribution:** through the QUEST online homework service. Problem sets should be down loaded each week from the internet at <http://quest.cns.utexas.edu/>
- You should register at the site prior to downloading the first problem set.
- **Homework collection:** Submit problem set solutions on the Web through the QUEST Service.
- **Due Date/Time:** Each Wednesday evening/ Thursday morning at 2:00 am.
- **Solutions:** Solutions to problems are available after the due date on the QUEST website.
- **Late homework submission policy:** No credit will be given for solutions submitted after the weekly deadline.

4) Office Hours

- **Times:** Tuesdays and Thursdays 11:00 – 12:00 (right after class).
- **Location:** RLM 12.202

5) Tests and Final Exam

- **Tests:** There will be four 1.5 hour mid-term tests. See the syllabus for material to be tested. No make-up tests will be given.
- **Test dates:** 7:00 – 8:30; Thursdays; 2/19/09, 3/12/09, 4/16/09, 5/7/09
- **Mid term test location:** To be announced in class
- **Final Exam:** TBD.

6) Laboratory

- PHY 103N is a co-requisite of this course. It is a distinct and separately graded course.

7) TA Session

Teaching discussion sessions: (see class schedule for the classroom sites)

ID# 58335:	Tue 5-6	RLM 5.124
ID# 58340:	Wed 6-7	RLM 5.126
ID# 58345:	Tue 7-8	RLM 7.116
ID# 58350:	Wed 7-8	RLM 6.126

8) Grading policy

- Homework: 10%
- TA session: 7%
- Mid-term tests: 33%
- Final Exam: 50%

- The lowest of the four mid-term test scores will be deleted in computing the mid-term average
- Extra credit points will be given on the final based on your iClicker participation in lecture.
- Final grades will be determined by a class curve

PHYSICS 303L Class Syllabus

Text: Ohanian and Markert, Physics for Engineers and Scientists, Volume 2. This course covers chapters 22 through 35.

Days	Chapter covered Tu -- Thur	Problem set	Due time
20, 22 – Jan	22 23		
27, 28 – Jan	24 24	#1 – ch 22,23	2:00 am Thur. 1/28
3, 5 – Feb	25 25/26	#2 – ch 24	2:00 am Thur. 2/15
10, 12 – Feb	26 27	#3 – ch 25	2:00 am Thur. 2/12
17, 19 – Feb	27 28	#4 – ch 26	2:00 am Thur. 2/19
<i>Mid-term test # 1: Thurs. 19 - Feb 7:00 – 8:30 pm Chaps 22 – 26</i>			
24, 26 – Feb	28 29/30	#5 – ch 27	2:00 am Thur. 2/26
3, 5 – Mar	29/30 29/30	#6 – ch 28, 29/30	2:00 am Thur. 3/5
10, 12 – Mar	29/30 31	#7 – ch 29/30	2:00 am Thur. 3/12
<i>Mid-term test # 2: Thurs. 12 – Mar 7:00 – 8:30 pm Chaps 27 - 30</i>			
17, 19 – Mar	<i>Spring Break</i>		
24, 26 – Mar	31 31	#8 – ch 31	2:00 am Thur. 3/26
31 Mar, 2 Apr	32.4/6 33	#9 – ch 31,32.4/6	2:00 am Thur. 4/2
7, 9 – Apr	33 34	#10 – ch 33	2:00 am Thur. 4/9
14, 16 – Apr	34 34/35	#11 – ch 34	2:00 am Thur. 4/16
<i>Mid-term test # 3: Thurs. 16 – Apr 7:00 – 8:30 pm Chaps 30 – 32,34</i>			
21, 23 – Apr	35 35	#12 – ch 34,35	2:00 am Thur. 4/23
28, 30 – Apr	35 Demos	#13 – ch 35	2:00 am Thur. 4/30
5, 7 – May	Special Review		2:00 am Thur. 4/30
<i>Mid-term test # 4: Thurs. 7 - May 7:00 – 8:30 pm Chaps 35 - 38</i>			

Details:

- **Getting Started:** You need to register on <http://quest.cns.utexas.edu/student>. Follow the link marked “GET STARTED”.
- **Homework:** Distribution and collection of homework are done in your QUEST-account. Each homework will be posted on the Tuesday afternoon seven days before that homework is due. You can also get help at <http://cns.utexas.edu/quest/support/student>
- **QUEST-emergency bulletin:** It posts urgent announcements: e.g. defective problems, change of due-date, etc.
- **Solutions:** Solutions are available on QUEST immediately after the due time.
- **Grades:** A grading report for each problem set is available on the WWW after the due time.
- **Exams:** You must take quizzes at the designated exam site: To be announced. Be at the site 10 minutes early.
- **Final exam:** It is comprehensive and mandatory. Final exam location will be assigned by UT Registrars office.