PHYSICS 38 – SYLLABUS – SPRING 2013

Ticket No. 0555: Prerequisite: Physics 37 and Math 266

Class Meets:
Tuesday & Thursday, 10:35 a.m. – 12:40 p.m.
Wednesday, 1:20 pm – 4:30 pm

INSTRUCTOR: Richard Rains
Office Phone (818) 364-7702
Office Location: CMS 241
Email: rainsre@lamission.edu
Web Site: http://www.lamission.edu/~rainsre

REQUIRED TEXTS: "Physics for Scientists and Engineers" by Serway/Jewett, 8th edition
ISBN 1-4390-4844-4
Mission College Bookstore: New: $328; Used; $246
Amazon.com: New: $163; Used: $104

OFFICE HOURS: M-Tu-Th 1:00 – 3:00 p.m.
Office number: CMS 241

COURSE DESCRIPTION: Designed for Physics, Astronomy, Chemistry, Engineering & Mathematics majors, Physics 38 is the second semester of a three semester calculus-level sequence in introductory college Physics. Topics include mechanical waves, electric charge and electric fields, electric energy storage, electric currents, magnetism, electromagnetic induction, electromagnetic oscillations, AC circuits, and Maxwell's Equations.

STUDENT LEARNING OUTCOMES

1. Calculate the magnitude and direction of electrical and magnetic forces and fields under diverse circumstances

2. Find voltages, currents, powers and phases of different a.c. and d.c. electrical circuits

3. Explain the mechanism of wave propagation and determine wavelength, frequency and velocity of mechanical waves.

4. Acquire, analyze and graph scientific data collected with instruments during laboratory experiences.

GRADING: The final course grade will be determined by:

Tuesday chapter quizzes	22% of final grade
Midterm Exam: Wed. March 27 (Chapters 15-18, 23-26)	22%
Final Exam: Thu. May 30, 10-12 p.m. (Chapters 26-33)	22%
Weekly Homework:	11%
Lab Reports:	12%
Lab Final Exam: Wed, May 22	11%

TUESDAY QUIZZES: During the first hour on Tuesday, there will be a quiz covering the material of the previous week.

The Tuesday quiz will be given only during the first hour of class. If a quiz is missed, no make-up quiz will be given, and missed quizzes will be recorded as zero. However, to account for personal emergencies, the two lowest quiz grades will be dropped at the end of the semester.

Quizzes are closed-book, closed-notes. Useful formulas will be provided for use during the quizzes.

HOMEWORK: There will be a homework assignment due each day. Homework is accepted only during the first 15 minutes of the class period on the day it is due. No late homework is accepted under any circumstances. However, the two lowest homework grades will be dropped at the end of the semester.

LAB: No make-up labs will be given, but the one lowest lab report grade will be dropped at the end of the semester.

MIDTERM AND FINAL EXAMS: Exams are closed book, closed notes. Useful formulas will be provided for use during the exams.

No early or late exams will be given under any circumstances. Please arrange your life accordingly.

GRADES: will be continually updated and posted on the internet at:
http://www.lamission.edu/~rainsre

Approximate grading scale for quizzes, mini-quizzes, tests and final course grade:

90% – 100% = A, 75% – 89% = B, 65% – 74% = C, 40%– 64%= D

Topic Schedule:

Week of Feb 5:	Ch 15	Week of April 9:	Ch 27
Week of Feb 12:	Ch 16	Week of April 16:	Ch 28
Week of Feb 19:	Ch 17	Week of April 23:	Ch 29
Week of Feb: 26:	Ch 18	Week of April 30:	Ch 30
Week of March 5:	Ch 23	Week of May 7:	Ch 31
Week of March 12:	Ch 24	Week of May 14:	Ch 32
Week of March 19:	Ch 25	Week of May 21:	Ch 33
Week of March 26:	Ch 26	Week of May 28:	FINALS

PLAGIARISM: Lab reports must be written by the individual student. Any material which is word-for-word the same as another source must be placed in quotes with the source citation. Any word-for-word segments not in quotes will be considered as plagiarism. The grade for such a lab report will be zero.

CELL PHONE POLICY: No cell phone activity is allowed during the lecture or lab.

EAR BUD POLICY: Please remove all ear buds and headphones upon entering the lab.

ETHICS POLICY: Any student found to be cheating on any quiz or test will receive an immediate zero on that activity. Cheating on the Final Exam will result in a grade of F for the course.

DATES listed on this syllabus may change. Each student is responsible for current class announcements, whether he/she is present in class or not.

Last Day to drop the class without a "W":	Feb 18
Last Day to drop the class with a "W":	May 3

NOTE: It is the student's responsibility to drop the class. After the final census date, the instructor is not responsible to exclude students who have become inactive.

You can get help from Learning Center Resources:

For personal help, visit the Science Success Center (SSC) at the Learning Resource Center, located on the 1st floor of the Library building (Room 208) Join your peers and tutors at LAMC SSC on Facebook for class discussions. Enroll in a study group. http://lamission.edu/learningcenter/ssc.aspx