

LOS ANGELES MISSION COLLEGE FALL 2011
PHYSICAL SCIENCE 1–SEC. 0521
TTH – 9:05 - 10:30 – Room: INST – 2003

INSTRUCTOR: Margarete Allen
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OFFICE HOURS: TTH 10:30–11:30 pm

Class Description: This class is designed for nonscience majors and meets the General Education requirements for Natural Sciences. The subject matter covers the general principles of the following disciplines: Physics and Chemistry.

Prerequisites: No prerequisites are required for this class. However, an advisory of Math 115 recommends a basic knowledge of algebra for success in this class.

Required An Introduction to Physical Science; Shipman, Wilson, Todd; 12th Ed.

Materials: Scientific Calculator

Grading: The final grade in class is composed of the following:

	<u>Raw Points</u>	<u>~ % of Total Grade</u>
Quizzes (10 x 15 pts/ea)	150	20
Test (3 x 100 pts/ea)	300	40
Final Exam	150	20
Online Assignments	75	10
Homework	75	10
Total	750	100

The final grades cutoffs are as follows:

A 90% (675 –750 points)	D 55% (412 – 486 points)
B 80% (600 –674 points)	F less than 55% (0 – 411 points)
C 65% (487 – 599 points)	

Notes:

1. **No makeup** is allowed for quizzes. Quiz topics will be announced in class.
2. Homework assignments will be collected at the beginning of the class period they are due. Due dates are posted on my website.
No late homeworks accepted, except in case of absence.
3. Makeups for tests and final exam will only be given under special circumstances, and need to be arranged with the instructor prior to the absence.
Only **one makeup exam** is allowed per semester.

Exams: Exams will be closed book and closed notes. You are expected to bring a scientific calculator for your own use. The exam will consist of a multiple choice part covering basic concepts, and a second part with short answer and simple math problems.
You may use **one 3x5 index card** during the tests.

Attendance:

- College regulation state that a student may be excluded from a course following accumulation absences equal to one week of course work.
- **September 23, 2011** - Last day to DROP classes, without a "W".
- **November 18, 2011** - Last day to drop with a "W" for Fall 2011.

TENTATIVE LECTURE SCHEDULE

Week	Date	Chap.	Description	Pages
1	8/30 9/1	1 1	Introduction to Class/ Measurements Significant figures/ Scientific Notation	2 -19 20 - 22 App VI - VII
2	9/6 9/8	2 2	Vectors / Speed & Velocity - Quiz1 Accelerated Motion/Free Fall/Projectiles	27 - 32 32 - 42
3	9/13 9/15	3 3	Newton's Laws of Motion & Gravitation - Quiz 2 Momentum & Its Conservation	49 - 62 63 - 68
4	9/20 9/22	----- -----	Computer Lab 1 – Quiz 3 Review for Test 1	-----
5	9/27 9/29	----- 4	Test 1 (Chapters 1- 3) Quiz 4 - Work/Energy/Power	----- 75 - 87
6	10/4 10/6	5 5	Temperature & Heat Quiz 4 Thermal Properties of Matter	99 - 115 Inst. Notes
7	10/11 10/13	6 7	Waves & Sound– Quiz 5 Light Waves/Optics	129 - 145 151 – 159 170 - 176
8	10/18 10/20	----- -----	Review for Test 2 Test 2 (Chapters 4 - 7)	-----
9	10/25 10/27	8 8	Electric Current & Circuits Magnetism & Electromagnetism– Quiz 6	183 - 197 197 - 209
10	11/1 11/3	9 10	Atomic Structure Nuclear Physics – Quiz 7	Inst. Notes 252 - 267
11	11/8 11/10	----- -----	Review for Test 3 Test 3 (Chapters 8 - 10)	-----
12	11/15 11/17	11 11	Classification of Matter/Periodic Table Chemical Formulas & Equations Quiz 8	282 - 284 291 - 301
13	11/22 11/24	12	Chemical Bonding/Compounds Thanksgiving Holiday (College closed)	312 - 326
14	11/29 12/01	13 13	Chemical Reactions – Quiz 9 Chemical Reactions Types	338 - 344 353 - 358
15	12/06 12/08	16 16	The Solar System – Quiz 10 The Solar System (cont'd) & Review	429 - 453
	12/13		Final Exam (Chapters 11- 13,16) Time 10:00am - 12:00	

ADDITIONAL HOMEWORK ASSIGNMENTS

- These problems are assigned from the text for additional practice.
- They will not be collected for grade, but are highly recommended as additional practice.

Chapter	Assigned Exercises
1	8 (b, c), 9, 12, 17, 20, 22, 24
2	1, 2, 5a, 7, 8, 9, 10a, 11a, 13, 14
3	1, 2, 4, 5, 8, 11, 15, 16, 17
4	1, 2, 3, 4, 7, 9, 13, 16, 17, 18a, 21
5	1 - 6, 7, 13, 15a, 16, 17
6	1, 2, 3, 4, 5a, 9
7	2, 5, 6
8	2, 9 - 12, 15, 17 - 21, 23a, 24a, 25 - 27
9	No assigned problems
10	1, 2, 5, 6, 8, 10, 12 - 20, 22, 24
11	2, 4, 6, 12, 14, 16, 18, 22, 30
12	14, 22, 24, 28
13	2, 4, 6, 8, 12
16	To be assigned at a later date

Title & Course	SLO	College GE SLO	Assessment Method	Rubric for Assessment
Physical Science 1	1. Conceptualize and explain physical phenomena and identify the related scientific concepts	1. Written and Oral Communication	1. Embedded Questions in exams	TBD
Physical Science 1	2. Describe various forms of motion and identify the forces that produce each.	2. Problem Solving		