LOS ANGELES MISSION COLLEGE-FALL 2015
PHYSICAL SCIENCE 1–SEC. 0465
TTH – 10:35-12:00 – Room: CMS 28

INSTRUCTOR: Seung K. Ji **OFFICE PHONE: TBA**
E-MAIL: TBA **OFFICE HOURS: MW 4:00–5:15**
WEBSITE: http://www.profpaz.com **TTH 12:00–1:30**

Class Description: This class is designed for non-science 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 Materials: ⇒ An Introduction to Physical Science; Shipman, Wilson, Todd; 13th Edition (textbook)
⇒ Scientific Calculator

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

	Raw Points	∼ % of Total Grade
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 make-up** 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. Make-ups 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 make-up 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.

TENTATIVE LECTURE SCHEDULE

Week	Date	Chap.	Description	Pages
1	9/1 9/3	1 1	Introduction to Class/ Measurements Significant figures/ Scientific Notation	2-19 20-22 App VI-VII
2	9/8 9/10	2 2	Vectors / Speed & Velocity -**Quiz 1** Accelerated Motion/Free Fall/Projectiles	27-32 32-42
3	9/15 9/17	3 3	Newton's Laws of Motion & Gravitation- **Quiz 2** Momentum & Its Conservation	49-63 66-71
4	9/22 9/24	---- ----	Computer Lab 1- **Quiz 3** Review for Test 1	-----
5	9/29 10/1	---- 4	**Test 1 (Chapters 1-3)** Work/Energy/Power	---- 78-90
6	10/6 10/8	5 5	Temperature & Heat - **Quiz 4** Thermal Properties of Matter	104-119 Inst. Notes
7	10/13 10/15	6 7	Waves & Sound– **Quiz 5** Light Waves/Optics	134-153 158-170 170-187
8	10/20 10/22	---- ----	Review for Test 2 **Test 2 (Chapters 4-7)**	-----
9	10/27 10/29	8 8	Electric Current & Cirucuits Magnetism & Electromagnetism– **Quiz 6**	192-208 208-221
10	11/3 11/5	9 10	Atomic Structure Nuclear Physics- **Quiz 7**	Inst. Notes 256-289
11	11/10 11/12	---- ----	Review for Test 3 **Test 3 (Chapters 8-10)**	-----
12	11/17 11/19	11 ----	Classification of Matter/Periodic Table Chemical Formulas & Equations - **Quiz 8**	296-312 312-318
13	**11/22** 11/24 11/26	---- 12 ----	**Last day to DROP classes with a "W"** Chemical Bonding/Compounds Thanksgiving Holiday (College closed)	---- 323-347 ----
14	12/1 12/3	13 13	Chemical Reactions – **Quiz 9** Chemical Reactions Types	353-364 364-377
15	12/8 12/10	16 16	The Solar System – **Quiz 10** The Solar System (cont'd)	444-472
	12/17 10am– 12pm		**Final Exam (Chapters 11-13, 16)**	

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, 18, 20, 21, 23
2	1, 2, 5a, 7, 8, 9, 10a, 11, 13, 14
3	1, 4, 5, 8, 11, 15, 21
4	1, 3, 4, 7, 9, 13, 16, 17, 19a,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, 17,19,20,21, 23a, 25,27
9	No assigned problems
10	1, 2, 5, 6, 9, 10, 11,13-19, 23, 25
11	1, 3, 5, 12, 15, 17,19, 21, 29
12	13, 21, 23, 27
13	1, 3, 5, 7, 11
16	To be assigned at a later date