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SE '00
PM

CHAMINADE UNIVERSITY OF HAWAII

COURSE SYLLABUS

? LAB - ?

90 + 60

PHYSICS 140 INTRODUCTION TO ASTRONOMY

Instructor: Dr. Jack F. McMillan

Class Location: Pearl Harbor, Bldg 679

Class Hours: TTh 4:45 - 6:50 PM , 7:05 - 9:10 PM (Lab)

Office Hours: TBA

Phone: 536-5496

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Text: Astronomy Today, Third Edition

Chaisson, Eric and McMillan, Steven; Prentice
Hall Publishing Co.

I. Course Goals:

This course is designed to provide the student with an understanding of modern astronomical principles and scientific methods. The course will examine the current body of knowledge in astronomy with an emphasis on recent data provided by satellite missions. Also, the course will introduce the student to the Internet via astronomy-related websites.

II. Course Objectives:

1. To develop an understanding of the historical and present role of astronomy in society.
2. To develop an understanding and appreciation of basic science.
3. To be able to define Astronomy and know what astronomers do.
4. To be able to define and use astronomical terminology.
5. Understand the importance of astronomy in everyday life.
6. To learn to distinguish science from popular pseudoscience.

III. Course Requirements:

1. Homework. There will be weekly assignments due the following week worth 10 points each.
2. Examinations. There will be four tests worth 100 points each.
3. Lab Reports. There will be 10 labs with reports due the following lab session. Each report is worth 10 points.
4. Extra Credit: The instructor will suggest extra credit assignments. Typically, these help when one's grade is "borderline".

IV. Grades:

A = 90 - 100 %	450 - 500 points
B = 80 - 89 %	400 - 449 points
C = 70 - 79 %	350 - 399 points
D = 60 - 69 %	300 - 349 points
F = Below 60 %	000 - 299 points

V. Topics:

	Chapter
Charting The Heavens	1
The Copernican Revolution	2
Radiation	3
Spectroscopy	4
Exam 1.	
The Solar System	6
The Earth	7
The Terrestrial Planets	8, 9, 10
The Jovian Planets	11, 12, 13

Exam 2.

Measuring the Stars 17

Stellar Formation 19

Stellar Evolution 20

Stellar Explosions 21

Exam 3.

Normal Galaxies 24

Cosmology 26

The Early Universe 27

Exam 4.