

PHSC 1123 - Physical Science Survey I

Fall Semester, 2008

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		Time	Sect. 5-TR 2-3:20 A103 NSB
			PHSC 1123-005

CATALOG DESCRIPTION Credit 3 semester hours. **Emphasizes insight into basic physical science principles and practices. Emphasis is placed upon the earth science aspects dealing with the atmosphere, hydrosphere , and lithosphere (this sentence is being revised to indicate a balanced exposure to astronomy, earth science) .**

CO-REQUISITE: PHSC 1121. *(PHYS 1315)

COREQUISITES BY TOPIC:

Physical science lab.

TEXTBOOK: Physical Science 7th Ed. By Bill W. Tillery

REFERENCE: Contemporary Physical Science by Aluka., the Physical Universe by Krauskopf & Beiser

COURSE GOALS:

The purpose of this course is to give the student a broad-based introduction to astronomy, earth science with chemistry.

Course Outcomes :

Upon completing this course the student will have exposure to and basic knowledge of many concepts in astronomy, earth science, and atomic structure, as well as experience in solving word problems associated with standard concepts.

Course Policies:

This course uses the lecture format. Reading and homework assignments will be made, and some problems will be graded. Occasional quizzes (expected everyday) will check the reading assignments. It is expected that you will need to spend at least two hours studying outside the class for each hour spent in class. That means you should plan to devote a minimum of nine hours per week for this class.

Homework And Grading

1)

- a. Your grade will be based on class participation in the form of explaining problems, answering questions from the instructor, and taking quizzes (extra points to buffer your exam scores--you get paid for everything that you do), turning in computer assignments using MS WORD, EXCEL, POWERPOINT, and/or the internet, turning in notes (< 50 pts.) and three major exams (covering about 6 current chapters each).
- b. Attendance should be maintained. Particularly, there is no way to make-up a quiz or lab missed, but if you miss a quiz, two points are taken.
- c. Remember: 'To hear is to forget, to see is to know, to do is to understand'.
- d. Your final grade will be based on your overall average falling in the following categories: A--from 90 to 100; B--from 75 to 89; C--from 60 to 74; D--from 40 to 59; F-under.

100—90	A
89—70	B
69—50	C
49—30	D
—0	F

- 2) Material in each reading assignment will be covered in the lecture on the date given. You should read the entire assignment and if possible work some of the problems before the class.
- 3) Problem assignments and quizzes that are missed will not be made up.

Oral and Written Communications

Oral or Written communication assignments are given through exams, quizzes, answering questions in class, board explanations, and report writing.

Attendance Policy: (undergraduate catalog, 1998-2001, pp.80

Classes will start at the prescribed time and will end at the prescribed time. Excessive absences or tardiness will result in lowered grades. Excessive absenteeism, whether EXCUSED or UNEXCUSED, may result in a student's course grade being reduced or in assignment of a grade of "F". Absences are accumulated beginning with the first day of class. University Undergraduate catalog (1998-2001, pp.80) provide more detail information.

Student Academic Appeals Process (undergraduate catalog, 1998-2001, pp.88-91)

ADA statement

COURSE OUTLINE

Week	Topic	Note
	Introduction	
1 - 8	<p>COURSE CONTENT</p> <p>This course is the first of a two semester course in physical science. The objective of the course is to enhance the students broad exposure to the physical sciences. It is desirable that the learning environment be a microcosm of the professional world--that is, the system of evaluation is to reflect the effort, as well as cleverness, that is produced by the student. Each student is "paid" extra points for class participation outside the two major exams, one comprehensive exam, and 50 points for complete notes. A list of what this course will cover and the tentative timetable is found below.</p> <p>FIRST 9 WEEKS</p> <p>Chapters 1, 16, 17, 18--Science history, geocentric & heliocentric systems, Bodes law, Kepler's laws, measurement systems, the earth, latitude and longitude, time zones, First Exam, moon and telling time by moon phases, sidereal and synodic months, eclipses, tides, solar system, the Sun, stars, Hertzsprung-Russell diagram, cosmology, Review. Second exam.</p>	
9-16	<p>SECOND 9 WEEKS</p> <p>Chapters 13-15 -- Meteorology, weather, geology, minerals, rocks earthquakes, plate tectonics, geologic time, pollution, Chemistry (proton-electron interactions)--chapters 7-8, atomic structure, Periodic table trends and patterns, molecules and radicals, reactions and balancing equations, acids/bases, nuclear reactions, carbon dating of fossils, Organic chemical groups and structures. Review. Third (Final) exam.</p>	
17	Review	Final Exam