

PS 3311 (section 030): Physical Science Concepts
Course Syllabus for Fall 2005, TR 9:30-10:45 am

Instructor: Dr. Wayne Keith (942-2524 x227, wayne.keith@angelo.edu)
Office Hours: VIN 123 - MW 9-12, TR 11-12, T 3-4, and F 9-10
Web: <http://physics.angelo.edu/~wkeith> and <http://blackboard.angelo.edu>
Text: *Advanced Physical Science Vol. 1*
(download free at <http://physics.angelo.edu/~dbixler/ps3311text.pdf>)
Required: calculator, paper, pencil

Course Description: An interactive course designed to study physical systems and sub-systems, interactions, measurements, forces, motion, sound, light, and color. Teams of four students will conduct the investigations. Team assignments will be made at the beginning of the term and may be changed at any time during the term. Grades will be based on three exams, a daily grade, homework, and projects.

Course Goal: To understand the concepts of measurement, motion, force, sound, light and color; to discuss velocity and acceleration, Newton's Laws, acousting waves, motions of the Moon and planets, and light reflection and refraction; and to explore through inquiry: collisions, machines, instruments, light manipulation and color mixing.

Grading: 25% Daily grade: attendance, class participation, and journal entries.

25% Homework/projects

30% Exams: (15% for each exam)

20% Final Exam

ADA Statement: Persons with disabilities which may warrant academic accommodations must contact the Student Life Office, Room 112 University Center, in order to request such accommodations prior to any accommodations being implemented. You are encouraged to make this request early in the semester so that appropriate arrangements can be made.

Academic Honesty: Angelo State University expects its students to maintain complete honesty and integrity in their academic pursuits. Students are responsible for understanding the Academic Honor Code, which is contained in both print and web versions of the Student Handbook.

Attendance: Students are expected to be in class on time and to attend all class meetings. Since this class is founded on the principles of inquiry-based learning, attendance is of utmost importance. Absences for any reason will result in a reduction of the course grade according to the following table:

Number of absences	Reduction in final grade
1	0%
2	0%
3	2%
4	4%
5	8%
6	16%
7	32%
More than 7	Automatic F for the course

**PS 3311 (section 030): Physical Science Concepts
Course Schedule for Fall 2005, TR 9:30-10:45 am**

Date	Tentative Topic
8/30	Introduction and Safety
9/1	U1, U2, U3, U5
9/6	M1, M2
9/8	M3
9/13	M4
9/15	M5, M7
9/20	M8
9/22	M9, M10
9/27	Review and Reflection
9/29	Test 1
10/4	F1, F2
10/6	F3, F4
10/11	F5, F6
10/13	F7
10/18	S1, S2, S3
10/20	S4, S5, discussion on overtones
10/25	S6, S7
10/27	Review and Reflection
11/1	Test 2
11/3	A1, A2
11/8	L1, L2
11/10	L3, L4, L5
11/15	L6, L7
11/17	L9, L10
11/22	L11, L12, L13
11/24	Thanksgiving Holiday (yum yum!!)
11/29	L14, L15
12/1	L16, L17
12/6	L18, L19
12/8	Review and Reflection
12/15	Final Exam (Thursday at 8:00am)