

2. Chemical Bonding and Reactions
3. Organic Chemistry

C. Part Three: Overview of Astronomy

1. Solar system overview and planets
2. Moon and other solar system objects
3. Our sun and the stars

D. Part Four: Overview of Geology

1. Minerals and Rocks
2. Structural geology
3. Surface processes and geologic time

V. APPROPRIATE READINGS

Reading assignments may include but are not limited to the following:

I. Sample Text Title:

1. Recommended - Hewitt, P *Conceptual Physical Sciences*, ed. 4 Addison Wesley, New York, 2008,

II. Other Readings

1. Recommended - 1. *Selected articles from Scientific American, Astronomy!, Sky and Telescope, Science and other scientific magazines* 2. *Various internet articles*

- Global or international materials or concepts are appropriately included in this course
- Multicultural materials and concepts are appropriately included in this course

If either line is checked, write a paragraph indicating specifically how global/international and/or multicultural materials and concepts relate to content outline and/or readings.

VI. METHODS TO MEASURE STUDENT ACHIEVEMENT AND DETERMINE GRADES:

Students in this course will be graded in at least one of the following four categories. Please check those appropriate. A degree applicable course must have a minimum of one response in category A, B, or C.

A. Writing			
Check either 1 or 2 below			
X	1. Substantial writing assignments are required. Check the appropriate boxes below and provide a written description in the space provided.		
	2. Substantial writing assignments are NOT required. If this box is checked leave this section blank. For degree applicable courses you must complete category B and/or C.		
X	a) essay exam(s)	X	d) written homework
X	b) term or other paper(s)		e) reading reports
	c) laboratory report(s)		f) other (specify)

Required assignments may include but are not limited to the following:

There will be essay questions on the exams, a short essay (term paper) and the homework will require some essay questions be answered.

B. Problem Solving			
Computational or non-computational problem-solving demonstrations, including:			
X	a) exam(s)		d) laboratory reports
X	b) quizzes		e) field work
X	c) homework problems		f) other (specify):

Required assignments may include but are not limited to the following:

There will be simple computations required on the exams and quizzes, as well as on the homework assignments.

C. Skill demonstrations, including:			
	a) class performance(s)		c) performance exams(s)
	b) field work		d) other (specify)

Required assignments may include but are not limited to the following:

D. Objective examinations including:			
X	a) multiple choice	X	d) completion

X	b) true/false		e) other (specify):
X	c) matching items		

COURSE GRADE DETERMINATION:

Description/Explanation: Based on the categories checked in A-D, it is the recommendation of the department that the instructor's grading methods fall within the following departmental guidelines; however, the final method of grading is still at the discretion of the individual instructor. The instructor's syllabus must reflect the criteria by which the student's grade has been determined. (A minimum of five (5) grades must be recorded on the final roster.)

If several methods to measure student achievement are used, indicate here the approximate weight or percentage each has in determining student final grades.

25% Homework 50% Exams 25% Participation

VII. EDUCATIONAL MATERIALS

For degree applicable courses, the adopted texts, as listed in the college bookstore, or instructor-prepared materials have been certified to contain college-level materials.

Validation Language Level (check where applicable):	College-Level Criteria Met	
	YES	NO
Textbook	<u> X </u>	<u> </u>
Reference materials	<u> X </u>	<u> </u>
Instructor-prepared materials	<u> X </u>	<u> </u>
Audio-visual materials	<u> X </u>	<u> </u>

Indicate Method of evaluation:

Used readability formulae (grade level 10 or higher)	<u> </u>
Text is used in a college-level course	<u> X </u>
Used grading provided by publisher	<u> </u>
Other: (please explain; relate to Skills Levels)	<u> </u>

<i>Computation Level</i> (Eligible for MATH 101 level or higher where applicable)	<u> </u>	<u> X </u>
Content		
Breadth of ideas covered clearly meets college-level learning objectives of this course	<u> X </u>	<u> </u>
Presentation of content and/or exercises/projects:		
Requires a variety of problem-solving strategies including inductive and deductive reasoning.	<u> X </u>	<u> </u>
Requires independent thought and study	<u> X </u>	<u> </u>
Applies transferring knowledge and skills appropriately and efficiently to new situations or problems.	<u> X </u>	<u> </u>

List of Reading/Educational Materials

Recommended - Hewitt, P *Conceptual Physical Sciences*, ed. 4 Addison Wesley, New York, 2008, ISBN: 9780321516954

Comments:

- This course requires special or additional library materials (list attached).
 X This course requires special facilities:
 Science lab classroom for lecture demonstrations.

Attached Files:

<p>BASIC SKILLS ADVISORIES PAGE The skills listed are those needed for eligibility for English 125, 126, and Math 101. These skills are listed as the outcomes from English 252, 262, and Math 250. In the right hand column, list at least <u>three</u> major basic skills needed at the beginning of the target course and check off the corresponding basic skills listed at the left.</p>	
<p>(eligibility for Math 101) (as outcomes for Math 250)</p> <p><u> X </u> Performing the four arithmetic operations on whole numbers, arithmetic fractions, and decimal fractions.</p> <p><u> X </u> Making the conversions from arithmetic fractions to decimal fractions, from decimal fractions to percents, and then reversing the process.</p> <p><u> X </u> Applying the concepts listed above to proportions, percents, simple interest, markup and discount.</p> <p><u> X </u> Applying the operations of integers in solving simple equations.</p>	<p>Students will use:</p> <ol style="list-style-type: none"> the four arithmetic functions to complete homework assignments. fraction to decimal conversions to complete homework assignments. both the above listed, as well as the remaining math skills on examinations.

<input checked="" type="checkbox"/> <u>X</u> Converting between the metric and English measurement systems	
(eligibility for English 126) (as outcomes for English 262) <input checked="" type="checkbox"/> <u>X</u> Using phonetic, structural, contextual, and dictionary skills to attack and understand words. <input checked="" type="checkbox"/> <u>X</u> Applying word analysis skills to reading in context. <input checked="" type="checkbox"/> <u>X</u> Using adequate basic functional vocabulary skills. <input checked="" type="checkbox"/> <u>X</u> Using textbook study skills and outlining skills. <input checked="" type="checkbox"/> <u>X</u> Using a full range of literal comprehension skills and basic analytical skills such as predicting, inferring, concluding, and evaluating.	Students will use reading skills: 1. while completing their homework assignments. 2. reading skills during examinations. 3. while completing their research paper.
(eligibility for English 125) (as outcomes for English 252) <input checked="" type="checkbox"/> <u>X</u> Writing complete English sentences and avoiding errors most of the time. <input checked="" type="checkbox"/> <u>X</u> Using the conventions of English writing: capitalization, punctuation, spelling, etc. <input checked="" type="checkbox"/> <u>X</u> Using verbs correctly in present, past, future, and present perfect tenses, and using the correct forms of common irregular verbs. <input checked="" type="checkbox"/> <u>X</u> Expanding and developing basic sentence structure with appropriate modification. <input checked="" type="checkbox"/> <u>X</u> Combining sentences using coordination, subordination, and phrases. <input checked="" type="checkbox"/> <u>X</u> Expressing the writer's ideas in short personal papers utilizing the writing process in their development.	Students will use writing skills: 1. to complete their homework assignments. 2. during examinations. 3. while completing their research papers.
<u>Check the appropriate spaces.</u> <input checked="" type="checkbox"/> <u>X</u> Eligibility for Math 101 is advisory for the target course. <input checked="" type="checkbox"/> <u>X</u> Eligibility for English 126 is advisory for the target course. <input checked="" type="checkbox"/> <u>X</u> Eligibility for English 125 is advisory for the target course. <u><i>If the reviewers determine that an advisory or advisories in Basic Skills are all that are necessary for success in the target course, stop here, provide the required signatures, and forward this form to the department chair, the appropriate associate dean, and the curriculum committee.</i></u>	

REQUISITES
No requisites