

GARRETT COLLEGE
PHY 130 - Physical Science
Fall 2013

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Office Hours: T, Th 10:00 -11:30
Mon. 2:30-3:30
Tues. 1:30-2:30
Other times by appointment

Course Information

Credits: 4
Last Day to Drop: October 25, 2013
Meeting Day(s): Lecture 11:50-1:20 T Th Lab Th 1:30-3:30

Textbook

The Physical Universe, 11th edition, by Konrad Krauskopf and Arthur Beiser

Course Description

Examines the concepts underlying basic concepts of physics and chemistry with some calculation skills required. Scientific inquiry with experimentation will be stressed.

Core Learning Outcomes

By the completion of the course students will:

1. Demonstrate an ability to collect and report data.
2. Perform quantitative and qualitative functions as related to classical physics.
3. Understate the principles on thermodynamics, electricity, and magnetism.
4. Describe the properties and interactions of matter.

Attendance and Courtesy Policy

Attendance will not be taken, but based on the quiz and test schedule it is extremely important to attend all classes.

Please be on time to all classes. THE DOOR WILL BE CLOSED AFTER CLASS STARTS. IF YOU ARE LATE FOR A QUIZ OR TEST, YOU WILL NOT BE ALLOWED TO TAKE THE QUIZ OR TEST. Please turn off all cell phones. If there is a problem with either of these issues, discuss this with me outside of class.

Academic Dishonesty

All forms of academic dishonesty are causes for dismissal from the institution. The penalty is course failure and College expulsion. The individual may request re-admittance to the institution. However, re-admittance is not automatic, nor is it guaranteed. Academic dishonesty is described as : cheating which includes the willful giving of information to another person for purposes of evaluation or assignment completion as well as the receipt of information or work from another individual or reference source not permitted in a testing situation, plagiarism which involves taking/copying work from a reference and passing it off as one's own work, submitting papers written by another person, accessing the work of another person via computer technology, using cell phones for verbal or text messaging information, removing evaluation materials from offices, mailboxes, etc., falsifying signatures of supervisors of projects, changing answers , grades, etc., on a quiz test, paper, or project.

Students with Special Needs

Garrett College offers support services to enable students with special needs and/or disabilities to gain from their educational experience. These services comply with the Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973. It is the students's responsibility to voluntarily self-identify as having a special need and/or disability on the application for admission or with the Coordinator of Student Services as early as possible.

Evaluation Methods

TESTS	POINT VALUE	APPROXIMATE DATE
Exam 1 - Chapters 1-4	100	Sept. 24
Exam 2 - Chapters 5-7	100	October 15
Exam 3 - Chapters 8-10	100	November 7
Exam 4 - Chapters 11-13	100	November 28
Final Exam is cumulative	200	to be announced
On the weeks without an exam quizzes will most likely be given.	20	There will be approximately 6 quizzes given.

The lowest quiz grade and exam grade will be DROPPED. If you miss a quiz or exam this is the quiz or exam grade that will be dropped. **There are no make-ups!!!**

Please note that the lecture part of the course is 75% of your course grade and the laboratory grade makes up the other 25%. There are 600 points to be achieved in the lecture portion of the course.

Letter grades are assigned according to the following percentages achieved.

GCC Grading System

GPA	4.0	A	93-100	>	Superior Work
	3.7	A-	90-92	>	
	3.3	B+	87-89	>	Above Average
	3.0	B	83-86	>	Very Well Done
	2.7	B-	80-82	>	
	2.3	C+	77-79	>	Average
	2.0	C	73-76	>	Good Work
	1.7	C-	70-72	>	
	1.3	D+	67-69	>	Below Average
	1.0	D	63-66	>	
	0.7	D-	60-62	>	
	0	F	0-59	---	Failure

Course Content

<u>Week no.</u>	<u>Subject</u>	<u>Chapter</u>
1	Scientific Method	1
2	Motion	2
3	Heat	3
4-5	Energy	4
5-6	Electricity	5
6-7	Waves	6
8	Nucleus	7
9	Atoms	8
10	Periodic table	9
11	Crystals	10
12	Reactions	11
13	Thanksgiving week	
14	Organic/atmosphere	12
15	Final	Cumulative

PHYSICAL SCIENCE LABORATORY

IMPORTANT FACTS ABOUT THE LABORATORY:

***There is NO MAKE-UP lab. If you miss a lab you will obtain a ZERO for the lab.

***Each laboratory that is completed will also require a report to be submitted by each student.

***These reports may be hand-written or typed.

***The lab report consists of the following parts and should be submitted in this order:

Title

Objective

Procedure

Data Table

Calculations and Graph when indicated by instructor

Conclusion

Lab reports will constitute 25% of your final grade in this course. Each report is worth 20 points and your grade will be based on a percentage of the points you have earned on each report. Reports are due one week from when they are completed. There will be points taken off for late reports but they will be accepted. It is advisable to try and finish the report during lab time so that your lab is always done on time!!

Lab Content based on week number:

1	Safety rules and equipment use
2	Metric system
3	Velocity
4	Heat energy
5	Electricity
6	Sound Waves
7	Light
8	Elements and Compounds
9	The Periodic Table
10	Reactions
11	Gases
12	Thanksgiving
13	Organic chemistry
14	Virtual lab- topic to be announced
15	Clean up and lab final- worth the same 20 points as a report