

**GARRETT COLLEGE**  
**Physics111 - General Physics I**  
**Fall 2013**

**Assistant Professor:** Linda Griffith  
**Office:** Rm LC 636  
**Phone:** 301-387-3103  
**E-mail:** linda.griffith@garrettcollege.edu

**Office Hours:** Mon 2:30-3:30  
T/Th 10:00 -11:30  
Tues 1:30-2:30

**Course Information**

Credits: 5

Last Day to Withdrawal; October 25, 2013

Meeting Day(s): Lecture/Lab 1:30-2:30 M, W, F plus one hour weekly of a problem/lab time to be completed on Friday from 2:30-3:30.

**Textbook**

University Physics, 11<sup>th</sup> Edition Young and Freedman

**Course Description**

Examines the concepts underlying classical and modern physics with a calculus based approach used for solving many problems. Topics included are vectors, force, motion, gravitation, energy, momentum, rigid body motion, SHM, thermodynamics, and wave theory. Laboratory experiments illustrate the lecture material.

**Core Learning Outcomes**

By the completion of the course students will:

Understand fundamental physics principles involving mechanics and kinematics

Relate qualitative facts of classical mechanics.

Apply laws and rules of energy, momentum, and thermodynamics.

Collect and manipulate data into concise reports.

**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. Please turn off all cell phones. If there is a problem with either of these issues, discuss this with me outside of class.

**Evaluation Methods**

TESTS	POINT VALUE	APPROXIMATE DATE
Exam 1 – Chapters1-4	100	September 28
Exam 2 – Chapters5,7,12	100	October 14
Exam 3 – Chapters8-11	100	November 11
Exam 4 – Chapters13,15-17	100	December 2
Final Exam is cumulative	200	to be announced

On the weeks without an exam quizzes will most likely be given. 20

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 80% of your course grade and the laboratory grade makes up the other 20%. 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 Very Well Done
	3.0	B	83-86		
	2.7	B-	80-82	}	Average Good Work
	2.3	C+	77-79		
	2.0	C	73-76	}	Below Average
	1.7	C-	70-72		
	1.3	D+	67-69	}	Failure
	1.0	D	63-66		
	0.7	D-	60-62	}	
	0	F	0-59		

### Course Content

<u>Week number:</u>	<u>Subject</u>	<u>Chapter</u>
1	Models/Math	1
2	Kinematics	2

3	Motion	3,4
4	Newton	4,5
5	Gravitation	12
6	Work, Energy	7
7	Energy Momentum	7,8
8	Impulse	8
9	Rotation	9
10	Equilibrium	10,11
11	Periodic Motion	13
12	Waves	15
13	Thanksgiving Week and catch-up	
14	Thermodynamics	17
15	Review and catch up and final exam	cumulative