William Paterson University

Department of Physics

PHYS1100-80

Introduction to Physics

4 credits

Winter 2011 December 26, 2013 to January 14, 2014

Instructor: A. Maarouf

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Syllabus

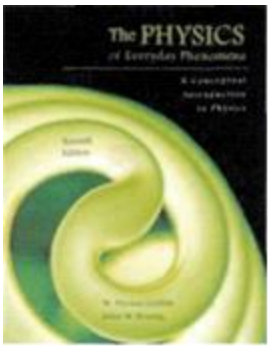
This course is taught entirely on-line. Every student at William Paterson has a student university e-mail address. Your university e-mail address is attached to Blackboard, and that is the one that will be used to contact you about assignments and other matters related to the course.

Technical requirement

You must be familiar with attaching files and accessing internet sites. To take this course you MUST know how to use Blackboard, Microsoft WORD and EXCEL for graphing

Academic Dishonesty (PLEASE READ CAREFULLY)

1. Submitting assessment material for this course which does not represent your original effort is a serious form of academic dishonesty.
2. Having a third party complete any of the assessments is in violation of regulations. {ww2.wpunj.edu/admroot/adminsrv/hr/facultyhandbook2000/studentcodeofconduct.htm)}
3. Proof of violation of the academic honesty policy will subject the individual to denial of the grade.



Text: The Physics of Everyday Phenomena 7* edition by Griffith and Brosing

Course Objectives:

The course is designed to prompt the understanding of the surrounding environment using the laws of Physics. This course is designed to fully satisfy the requirements of the Natural Science Core Standards.

Student Learning Outcomes:

- ✓ Students will be able to learn the fundamental laws and principles of Physics.
- ✓ Students will be able to appreciate the conservation laws of energy and momentum.
- ✓ Develop an understanding and appreciation for common phenomena from a physics perspective.
- ✓ Demonstrate the ability to locate and use information.
- ✓ Demonstrate the ability to integrate knowledge and ideas in coherent and meaningful manner.

This course is taught entirely on-line. Please check your WPU email account and the WPU Blackboard on a regular basis for announcements.

ALL QUESTIONS about the course should be directed to me by email: maaroufa@wpunj.edu

Grading:

Evaluation will be based on the following work - (marks deducted for late submission of required work):

- Assignments: 60%
- Lab work: 20%
- Essay: 5%
- Final Exam: 15% (cumulative and mandatory: last day of class)

Standard Evaluation:

The following grade scale will be used to assign final grades for this course:
Cumulative final grade letter grade

- 95-100 A
- 90-94 A-
- 87-89 B+
- 84-86 B
- 80-83 B-
- 76-79 C+
- 72-75 C
- 68-71 C-
- 64-67 D+
- 55-63 D
- <55 F

Course Content:

This course is organized into 6 units. Each unit is comprised of chapters, and each chapter is broken down into two sections: Readings, Lessons.

Readings:

This section includes the learning objectives for the chapter, required readings in the text for this course, and key concepts, which are a summary of the critical information covered in the chapter.

Lessons

Each chapter contains lectures and/or multimedia lessons that provide the material introducing new topics to be studied. Associated with each lesson may be one or more of the following items:

- Study Sheets
  This section includes more information on the lesson topic.

- Practice Problems
  This section includes problems related to the lesson topic. These sets represent the minimum requirement to get to understand the course material.

- Self-Check
  This section usually includes a self-check quiz to help you review and prepare for the assessment.

- Assessments
  This section includes a graded assignments and lab exercises. Make sure you have studied all the material for the Lesson BEFORE attempting the assignment and lab exercise. The lab exercises may involve data analysis, conducting simple experiments using materials that are readily available, and simulation exercises.