Syllabus

Physics 140: Principles of Physics I
Spring 2010
T &R 9:30–10:45 a.m., UH 141
W W: 2:15–5:15 p.m., UH 050

Instructor: **A. BOUKAHIL**

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Office Hours: **T & R:** **1:00 – 3:00 p.m.**
W: **12:00 – 1:00 p.m.**
All other times by appointment only.

Course Description

This course is the first of a two-semester sequence which introduces the basic concepts of algebra-based physics. The topics covered include

Part 1: Mechanics: Forces, Laws of motion in one, two, and three dimensions, energy, linear and angular momentum, Fluids and Waves.

Part 2: Thermal Physics: The ideal gas, Heat, and Thermodynamics.
Corequisite: Math152.

Textbook and required materials.

The 4 items that follow are required

1. Physics, 7th edition, by Cutnell and Johnson

2. Student Solution Manual**.**

3. as a Second Language, Introductory Physics with Algebra, Mastering Problem-Solving, by S. E. Loucks.

4. A scientific **NONPROGRAMMABLE** calculator.

Exams:

Two mid-terms and a final

1. Exam 1: Thursday, Feb. 18th , in 141 UH
2. Exam 2: Thursday, Mar. 18th , in 141 UH
3. Final Exam: Tuesday, May. 11th , 10:00 – 12:00 Noon, in 141 UH

Homework:

Homework will be assigned every week in class on Thursday and will be collected the following Thursday.

Grading Policy

Your grade in this course will be based on

1. Homework **(20%)**, there will be 10 assignments.
2. Midterm Exams (**50%): 25%** exam 1, **25%** exam 2
3. The final exam is cumulative and counts **30%**.

4. The laboratory portion of this course is mandatory. Missing one Lab session will result in halving your total grade. Missing two labs will result in a failing grade for the course.

Course expectations:

I expect you to attend the lectures and actively participate by asking me questions.
I expect you to complete the reading assignment before coming to class.
I expect you to complete you homework assignment since this is how you learn the subject matter and be prepared for exams.

Grading Scale:

A	95%—100%
A^-	90%—94%
B^+	86%—89%
B	82%—85%
B^-	78%—81%
C^+	74%—77%
C	70%—73%
C^-	66%—69%
D^+	61%—65%
D	56%—60%
D^-	50%—55%
F	<50%

Tentative topics to be covered: Chapters 1 through 15

Course Policies:

Avoid missing a scheduled examination. **No make-up exams will be given.** Class attendance is **not required** but the students are **responsible** for assignments if they do miss any class period.

All electronic devices (e.g., cellular phones, pagers, I-pods, blackberries, etc.) **must be turned off while in class**. NO CELL PHONES ARE ALLOWED DURING EXAMS. You will not be allowed to use cell phones as calculators.

Week	Date	Experiment
1	Jan.20	Lab Orientation
2	Jan. 27	Errors and the Density of a Solid
3	Feb. 3	Vector Addition and Equilibrium of Forces
4	Feb. 10	Friction

Laboratory

UWW Policies

Special needs statement: Students with special needs should contact the instructor to make appropriate arrangements.

The University of Wisconsin-Whitewater is dedicated to a safe, supportive and non-discriminatory learning environment. It is the responsibility of all undergraduate and graduate students to familiarize themselves with University policies regarding Special Accomodations, Misconduct, Religious Beliefs Accomodation, Discrimination and Absence for University Sponsored Events. (For details please refer to the Undergraduate and Graduate Timetables; the Rights and Responsibilities section of the Undergraduate Bulletin; the Academic Requirements and Policies and the Facilities and Services sections of the Graduate Bulletin; and the Student Academic Disciplinary Procedures [UWS Chapter 14]; and the Student Nonacademic Disciplinary Procedures [UWS Chapter 17].)