

**PHYSICS 006 – General Physics I - Section 1710 (Fall 2015)**  
**(Lecture: T 11:10 am – 2:20 pm / Lab: Th 11:10 am – 2:20 pm)**

**Instructor:** Elizabeth Bell [bellea@wlac.edu](mailto:bellea@wlac.edu)  
**Classroom:** MSA 403 **Office:** MSB 224  
**Phone:** 310-287-4585 (email is the quickest way to reach me –  
through ETUDES)  
**Hours:** M – 1:30 pm to 2:45 pm, T/Th – 10:30 am – 11:00 am, and  
2:30 pm to 3:00 pm, Th 8:30 pm to 9:15 pm (and by  
appointment)

**Recommended:** High School Physics

**Required:**

- **Textbook: Physics with Mastering Physics (4th Edition), by James S. Walker**  
**(If you purchase a used text, you will have to purchase Mastering Physics separately ~\$66) ISBN: 978-0-321-54163-5 Copyright 2010 Edition 4**
- **Scientific Calculator, Pencils, Graph Paper, Loose Leaf Paper**

**Prerequisite:** Math 241 (Trig. with Vectors)

**Course Description**

The first semester of this course is designed for majors in Health and Life Sciences, Architecture, and all those needing a one-year course in college physics requiring trigonometry but not calculus. The principal topics are mechanics, heat and sound.

**Grading:**

- **Lecture Exams (3) → 20% of grade each** (lowest score will be dropped)
- **Final Exam (1) → 30% of grade**
- **Homework → 15% of grade**
- **Labs → 15% of class grade**
  - **General Labs** (5 points each) – may drop lowest general lab
  - **Formal Labs** (27 point rubric) – formal labs may NOT be dropped

**Grading Scale:**

**A** 88% and higher   **B** 76-87%   **C** 64-75%   **D** 51-63%   **F** 50% and below

**\*Extra Credit\*** (you may earn up to 3% extra credit for the entire course).

**Attendance:** 3% (perfect attendance), 2% (1 absence), 1% (2A), 0% (more than 2 A); **Tardy counts as absence for extra credit count (so does forgetting to sign in even if you came to class on time).**

**Homework:** There will be the occasional extra credit homework problem which will count as extra credit toward your homework grade only.

**Student Responsibilities:** Physics is a difficult subject. For many of you, this will be one of your most challenging courses. Expect to spend an average of 6 hours per week (in addition to in-class time) on homework and review for this class. If you are having difficulty, you may work with a fellow classmate, utilize the tutoring center, or e-mail or see me in my office for additional help.

**Homework:** To be assigned by homework sets in [mastering physics](#). Your instructor will demonstrate how to set up an account and navigate the page on the first day of class. All homework assignments will be done on this site. Homework solutions for the book problems will be given the day after they are due.

**Exams:** There are NO makeup exams in this class. Your lowest lecture exam will be dropped. You MUST take the final exam in order to receive a grade for the class.

#### **Additional Notes:**

- All exams will be given on Thursdays
- Your lowest general lab score will be dropped (Note: exam questions may come from in-class laboratory material). Formal labs may not be dropped (you must get the data from a classmate and write up the report).
- General labs are worth 5 points. Formal labs will be worth 12 points.
- Homework will incur a 10% reduction for each day late.
- For exams, you are allowed one sheet of notes (front and back).

## TENTATIVE SCHEDULE

<b>WEEK</b>	<b>LECTURE (T)</b>	<b>LAB (Th)</b>
1-Sept	Introduction 1.1-1.7	Lecture Catch-up <u>Lab 1</u>
8-Sept	2.1-2.7	Writing Lab Reports / using and manipulating data
15-Sept	3.1-3.6	<u>Lecture Catch-up</u> <u>Lab 2</u>
22-Sept	4.1-4.5	<u>Lecture Catch-up</u> <u>Lab 3</u>
29-Sept	5.1-5.7	<u>Lecture Catch-up</u> No lab <b>*T 1 (Ch. 1-3)*</b> <b>Thursday, Oct. 1</b>
6-Oct	6.1-6.5	<u>Lecture Catch-up</u> <u>Lab 4</u>
13-Oct	7.1-7.4	<u>Lecture Catch-up</u> <u>Lab 5</u>
20-Oct	8.1-8.5	Lecture Catch-up No lab <b>*T 2 (Ch. 4-6)*</b> <b>Thursday, Oct. 22</b>
27-Oct	9.1-9.7	Lecture Catch-up <u>Lab 6</u>
3-Nov	10.1-10.6	Lecture Catch-up <u>Lab 7</u>
10-Nov	11.1-11.8	Lecture Catch-up <u>Lab 8</u>
17-Nov	12.1-12.5	Lecture catch-up No Lab <b>*T 3 (Ch. 7-10)*</b> <b>Thursday, Nov. 19</b>
24-Nov	13.1-13.8	<b><u>NO LAB / CLASS ON</u></b> <b><u>THURSDAY - HOLIDAY</u></b>
1-Dec	14.1-14.2, 14.4-14.9	<u>Lab 9</u> <u>Lecture Catch-up</u>
8-Dec	15.1-15.8	Lecture catch up Final Exam Review <u>No lab</u>
<b>15-Dec</b>	<b>**FINAL EXAM WEEK**</b> <b>No Class Tuesday</b>	<b>Thursday, 12/17,</b> <b>11:30 AM – 1:30 PM</b> <b>FINAL EXAM (Ch. 11-15)</b>

**TO SUCCEED AND OBTAIN A Good GRADE IN THIS CLASS:**

- 1. Attend class regularly, attending all class sessions. Get to class on time, every time, and stay the whole time. You are responsible for information, test announcements, date changes, etc. – whether or not you are present.**
- 2. Complete assignments on time. You have may have one to one and a half weeks to complete one unit. I will not extend a due date if you wait until the last day to begin the assignments.**
- 3. Take at least 2 of the in-class tests and the Final Exam (I highly recommend planning to take all tests in case of unforeseen emergencies, or just to try to pull your grade up) on the days listed above -- No make ups!**
- 4. You are responsible for credit and enrollment status. You are responsible to drop the class – if you choose not to continue. (Note: you may be excluded if you are consistently absent or tardy). Last day to drop the class without a "W" is sept 10.,. Students failing to follow the correct procedure for withdrawal will receive a grade "F" for the course which will affect your GPA.**

Drop a Class w/o a Fee	Sept 11
Drop a Class w/o a W	Sept 11
Drop w/ a W	Nov 20

- 5. Each student is expected to do his/her own work on all tests. Academic dishonesty, or cheating, will result in a zero grade on that test (which will not be dropped), plus (in cases of continued academic dishonesty) a filing of a report with the Science Chairperson or Dean of Students giving your name and describing the incident.**
- 6. Expect to work hard. You will need to spend at least 6-8 hours per week to complete the required reading and review of material taught in class. Do not wait until the last minute to start assignments. This will result in incomplete assignments and you will not have sufficient time to absorb the material.**
- 7. Please turn off your cell phone before entering the class, and do not eat**

**inside the NEW classroom. You may bring water bottles. You may use your cell phones during breaks.**

**8. In taking this class, you are agreeing to abide by all the rules and regulations stated above – including dates of tests and final. This means that you do not schedule anything else on test days.**

9. Welcome to Physics 006!!

\*\* If you are a DSPS student requiring special accommodation for this class, please contact me after class during office hours during the first week.

### **Student Learning Outcomes**

#### **INSTITUTIONAL OUTCOMES (SLOs):**

A. **CRITICAL THINKING:** Analyze problems by differentiating fact from opinion, using evidence and sound reasoning to specify multiple solutions and their consequences.

C. **QUANTITATIVE REASONING:** Identify, analyze, and solve problems that are quantitative in nature.

F. **TECHNICAL COMPETENCY:** Utilize the appropriate technology effectively for informational, academic, personal, and professional needs.

#### **PHYSICS DIVISION PROGRAM OUTCOMES (SLOs):**

1. Develop critical thinking skills and move toward autonomous learning.
2. Comprehend, describe, and apply the procedures of physics and understand their limitations.
3. Demonstrate competence in applying the methods of scientific inquiry.
4. Apply the basic physics principles to a wide/diverse range of problems.