

Physics 100  
Elements of Physical Science  
M-W 7 – 8:15 pm Lecture  
Merion 112

Mr. Fenimore  
120 Merion  
[dfenimore@wcupa.edu](mailto:dfenimore@wcupa.edu)  
Office hours: Before and after  
Class

### Recommended (Not Required) Hardcopy Book

Physics of Everyday Phenomena, Griffith, 5<sup>th</sup> edition  
Conceptual Physics, Hewitt

### Course Description

This course is designed to increase your understanding of the world around you both qualitatively and quantitatively. The goal of this course is to enhance your skills as a layman to think and communicate like a physicist. This course strives to have students meet the following general education goals:

1. Ability to communicate effectively
2. Ability to employ quantitative concepts and mathematical methods
3. Ability to think critically and analytically

### Grading

Your grade will be determined by your performance on the TESTS and QUESTS. You will also receive points for your effort on weekly online quizzes. The last exam will be given in class.

### Book (Recommended, not required)

FHSST: Physics

This is a free, online textbook that you can download from the following site:

[http://nongnu.askapache.com/fhsst/Physics\\_Grade\\_10-12.pdf](http://nongnu.askapache.com/fhsst/Physics_Grade_10-12.pdf)

It is also posted in the Content section of D2L for this course.

Chapters covered

**Chapter 2** –Units

**Chapter 3** – One Dimensional Motion

**Chapter 11** – Vectors

**Chapter 21** (Sections 1-2) – Projectiles

**Chapter 12** (Sections 1-4) – Newton's Laws

**Chapter 4** (Sections 1-2) – Gravity and Weight

#### **FIRST TEST**

**Chapter 4** (Sections 3-6) – Energy

**Chapter 22** (Section 2) – Hooke's Law

**Chapter 23** – Work, Energy, and Power

**Chapter 12** (Section 5) – Momentum and Impulse

**Chapter 21** (Sections 3-4) – Collisions

#### **SECOND TEST**

**Chapter 12** (Section 6) – Torque and Levers

#### **FIRST QUEST (Somewhere between a quiz and a test)**

**Chapters 5, 6, and 14** – Waves

**Chapter 15** – Sound

**Chapter 16** – Music

**Chapter 24** – Doppler Effect

#### **THIRD TEST**

**Chapter 7** – Light

**Chapter 13** – Optics

**Chapter 25** – Color

**Chapter 26** – Diffraction and Sonic Boom

#### **FOURTH TEST**

**Chapter 9** – Electrostatics

**Chapter 17** – more Electrostatics

**Chapter 10** – Circuits

**Chapter 19** – more Circuits

**Chapter 8** – Magnetism

**Chapter 18** – E&M

**Chapter 20** – Electric Properties of Matter

#### **FIFTH TEST**

# **Department of Physics**

## **West Chester University of Pennsylvania**

### **ACADEMIC INTEGRITY**

It is the responsibility of each student to adhere to the university's standards for academic integrity. Violations of academic integrity include any act that violates the rights of another student in academic work, that involves misrepresentation of your own work, or that disrupts the instruction of the course. Other violations include (but are not limited to): cheating on assignments or examinations; plagiarizing, which means copying any part of another's work and/or using ideas of another and presenting them as one's own without giving proper credit to the source; selling, purchasing, or exchanging of term papers; falsifying of information; and using your own work from one class to fulfill the assignment for another class without significant modification. Proof of academic misconduct can result in the automatic failure and removal from this course.

For questions regarding Academic Integrity, the No-Grade Policy, Sexual Harassment, or the Student Code of Conduct, students are encouraged to refer to the Physics Department's Undergraduate Handbook, the Undergraduate Catalogue, the Ram's Eye View, and the University website at [www.wcupa.edu](http://www.wcupa.edu).

### **AMERICANS WITH DISABILITIES ACT**

If you have a disability that requires accommodations under the Americans with Disabilities Act (ADA), please meet with me as soon as possible so that I can support your success in an informed manner. If you would like to know more about West Chester University's services for students with disabilities, please contact the Office of Services for Students with Disabilities which is located at 223 Lawrence Center and can be reached at 610-436-3217 and at [ossd@wcupa.edu](mailto:ossd@wcupa.edu).

### **EXCUSED ABSENCES POLICY FOR UNIVERSITY-SANCTIONED EVENTS**

Students are advised to carefully read and comply with the excused absences policy for university-sanctioned events contained in the WCU Undergraduate Catalog. In particular, please note that the "responsibility for meeting academic requirements rests with the student," that this policy does not excuse students from completing required academic work, and that professors can require a "fair alternative" to attendance on those days that students must be absent from class in order to participate in a University-Sanctioned Event.

### **EMERGENCY PREPAREDNESS**

All students are encouraged to sign up for the University's free WCU ALERT service, which delivers official WCU emergency text messages directly to your cell phone. For more information and to sign up, visit [www.wcupa.edu/wcualert](http://www.wcupa.edu/wcualert). To report an emergency, call the Department of Public Safety at 610-436-3311.

**For more information, please visit our department website at**  
**[http://www.wcupa.edu/\\_ACADEMICS/SCH\\_CAS.PHY/physics.asp](http://www.wcupa.edu/_ACADEMICS/SCH_CAS.PHY/physics.asp)**

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