

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

Mr. Fenimore
120 Merion
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Office hours: Before and after
Class

Recommended (Not Required) Hardcopy Book

Physics of Everyday Phenomena, Griffith, 5th 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.

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.

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

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.

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.

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. 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**

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