

# **PYS101 – Conceptual Physics**

Fall 2015

Time: Tuesday / Thursday 9:30 AM – 10:45 AM  
Location: Science Room 277  
Instructor: Dr. Yeliz Celik  
Office: S255  
E-mail: celik@marshall.edu  
Office Hours: M, 11:00 pm – 12:00 AM; W, 9:00 am – 12:00 PM; F, 9:00 AM-12:00 PM  
Required Text: “Conceptual Physics” by Paul G. Hewitt, 12<sup>th</sup> Ed.  
Prerequisites: Math 120 or Math 121 or Math 123 or equivalent and Physics 101L concurrent

Final Exam: Tuesday, Dec. 8<sup>th</sup>, 8:00 am – 10:00 am

## **COURSE CONTENT:**

The course provides an introduction to classical and modern physics for the non-science majors. Our study will include the following topics; mechanics, the properties of matter, heat, sound, electricity and magnetism, light, atomic and nuclear physics, and relativity. The format will be lecture-based; however, it is my goal to actively involve the student/class in discussion as much as possible.

## **LEARNING OUTCOMES:**

Students will learn the scientific concepts and terms and will learn to display scientific attitude. Students will develop the vocabulary, concepts and background knowledge needed to appreciate current research in physics and technology and its role in society.

Additionally, students will learn:

- Asking questions and defining problems
- Engaging in argument from evidence
- Analyzing and interpreting data
- Using mathematics and computational thinking
- Obtaining, evaluating, and communicating information

## **ATTENDANCE & GRADING POLICY:**

Attendance will be kept. At the instructor’s discretion, six or more unexcused absences will result in a reduction of your final grade by one letter grade. You will be responsible for what is said in class and exams must be taken on the scheduled dates unless a valid excused absence\* such as sickness, etc., occurs. As soon as you return from an excused absence you must notify the instructor to make arrangements to make up any missed work. Failure to do so will result in receiving a zero for that work. All cell phones must be turned off and out of sight when in class.

\*An excused absence generally requires a written excuse from another source (Physician, etc.).

Grading:

One's course grade will be determined from the following components:

<i>Three one-hour examinations</i>	60 %
<i>Final examination – comprehensive</i>	20 %
<i>Homework</i>	20 %

*Grading scale for course:*

The final grade will be determined as follows from the percentage of the total number of possible points.

<b>≥ 85</b>	<b>A</b>
<b>75-84</b>	<b>B</b>
<b>60-74</b>	<b>C</b>
<b>50-59</b>	<b>D</b>
<b>&lt; 50</b>	<b>F</b>

**UNIVERSITY POLICIES:**

By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy by going to:

<http://www.marshall.edu/academic-affairs/policies>.

Academic Dishonesty/ Excused Absence Policy for Undergraduates/ Computing Services Acceptable Use/ Inclement Weather/ Dead Week/ Students with Disabilities/ Academic Forgiveness/ Academic Probation and Suspension/ Academic Rights and Responsibilities of Students/ Affirmative Action/ Sexual Harassment

		<u>Monday</u>	<u>Tuesday</u>	<u>Wednesday</u>	<u>Thursday</u>	<u>Friday</u>
<b>Week 1</b>	Aug 24-28		Part 1		Part 1	
<b>Week 2</b>	Aug 31-Sep 4		Part 1		Part 1	
<b>Week 3</b>	Sept 8-11	Labor Day	Part 2		Part 2	
<b>Week 4</b>	Sept 14-18		Part 2		Part 3	
<b>Week 5</b>	Sept 21-25		Part 3		Part 3	
<b>Week 6</b>	Sept 28-Oct 2		<b>Test (1-3)</b>		Part 4	
<b>Week 7</b>	Oct 5-9		Part 4		Part 4	
<b>Week 8</b>	Oct 12-16		Part 5		Part 5	
<b>Spring Break</b>	Oct 19-23		Part 5		Part 6	
<b>Week 9</b>	Oct 26-30		Part 6		Part 6	
<b>Week 10</b>	Nov 2-6		<b>Test(4-6)</b>		Part 7	
<b>Week 11</b>	Nov 9-13		Part 7		Part 7	
<b>Week 12</b>	Nov 16-20		Part 8		Part 8	
<b>Week 13</b>	Nov 23-27	Thanksgiving Break	Thanksgiving Break	Thanksgiving Break	Thanksgiving Break	
<b>Week 14</b>	Dec 30-4		<b>Test(7-8)</b>		Review	
<b>Week 15</b>	Dec 7-11	Finals	Finals	Finals	Finals	Finals