

PHSC 1011

Syllabus

Course title: Foundations of Physical Science
Class hours: 3

Catalog number: PHSC 1011
Credit hours: 3

Instructor Dr. Charles W. Johnson

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Class web page <http://faculty.sgc.edu/cjohnson/Classes/1011phsc/phsc1011.html>

Video Podcast <itpc://podcasting.gcsu.edu/4dcgi/podcasting/southga/channels18113/19447.xml>

 Dr. Johnson's Class Schedule For Spring 2013 					
	Monday	Tuesday	Wednesday	Thursday	Friday
8:00-8:59 AM	PHYS 1112/2212		PHYS 1112/2212		
9:00-9:59 AM	8:00-9:15		8:00-9:15		
10:00-10:59 AM	Office Hour	Office Hour	Cabinet Meeting	Office Hour	
11:00 -11:59 AM					
12:00-12:59 PM					
1:00-1:59 PM	PHYS II Lab	PHSC 1011 Lab	Office Hour	Office Hour	
2:00-2:59 PM	1:00-2:50	1:00-2:50	Office Hour	Office Hour	
3:00-3:59 PM			Office Hour	Office Hour	
4:00-4:59 PM	PHSC 1011	PHSC 1011			
5:00-5:59 PM	4:00-5:15	4:00-5:15			
6:00-6:59 PM					

Textbook

Author	Title	Publisher	Edition
Tillery	<i>Physical Science</i>	McGraw Hill	9 th

Course Description

A survey class covering the basic principles underlying physical phenomena. Topics to be studied include motion, energy, work, wave phenomena and modern physics.

Prerequisite: MATH 1101 or 1111.

Course Objectives

- ☑ To familiarize students with some problem solving strategies.
- ☑ To provide an introduction to the physical nature of the universe.
- ☑ To help the student understand some of the basic laws and principles of physics.
- ☑ To enable the student to work simple problems dealing with physical concepts.

After taking this class graduates will demonstrate sufficient knowledge of natural laws and processes to understand scientific issues in a modern society.

Course Content

- ☑ The Scientific method, the metric system of units and power of ten notation.
- ☑ Uniform motion, speed, velocity, and acceleration.
- ☑ Newton's Laws of Motion, causes and consequences of motion.
- ☑ Energy, power, and work, forms of energy and its conservation.
- ☑ Momentum and its conservation.
- ☑ Heat, temperature, and thermodynamics, phases of matter.
- ☑ Basic concepts about electricity and magnetism.
- ☑ Wave types, properties, and effects.
- ☑ Basic concepts about modern physics.

Classroom rules of conduct

For the benefit of your fellow students and your professors, you are expected to practice common courtesy with regard to all course interactions. For Example:

- ☹ **Show up for class on time.**
- ☹ **Do not talk during class.**
- ☹ **Turn off your cell phone.**
- ☹ Do not leave class early, and do not rustle papers in preparation to leave before class is dismissed.
- ☹ Be attentive in class; don't study for your other classes, etc.
- ☹ If you must be late or leave early on, a particular day please inform your professor in advance.

Activities, Evaluation, and Make-up Policy

There will be three tests, two reports and a comprehensive final exam. For the weeks there is not a test, you will have a short quiz on that week's topics.

Your grade will be based on:

Grade Breakdown	
Quizzes	11%
Final exam	20%
3 tests @ 15% each	45%
2 Reports @ 12% each	24%

There will be no “extra” credit work. You will have plenty of opportunities to get grades. So concentrate on doing well on those instead of waiting for the end of the semester and hoping to do extra work.

Your letter grade will be based on the following:

Course Grade	Letter Grade
90 or above	A
80-89	B
70-79	C
60-69	D
Less than 60	F

No make-up tests will be offered to students who are absent for tests during the semester unless prior arrangements are made.

Hardship Withdrawal

A hardship W may only be sought after midterm in the case of a non-academic hardship such as severe extended illness. The procedure for seeking a hardship W is located on page 58 of the college catalog.

Attendance Policy

The following is the Attendance Policy as outlined in the Student Handbook:

- 1) Each division will establish attendance policies for each course.
- 2) Work may be made up in case of absences with legitimate excuses. Excuses may be judged legitimate by the instructor involved. If the instructor does not accept the student's excuse, the appeal procedure will be the same as the grade review procedure.
- 3) Group excuses for college sponsored activities from the Dean of Students will be considered legitimate excuses.
- 4) It will be necessary that the requirements for each course be distributed at the first meeting of the class.

To get the most from any course, each student should attend all the scheduled classes and laboratory periods. However, in a case where that is not possible the Division of Natural Science and Mathematics has the following specific requirements:

- 1) A student will be assigned the grade of zero for any assigned class work or exam missed because of an absence if the absence is not excused by the instructor.
- 2) A student will be given a grade of zero for any assigned work or exam missed because of an excused absence if the work missed is not made up.
- 3) The maximum number of class days that a student can miss and still receive credit for a class is twice the number of weekly meetings.

Non-Student Policy

It is campus policy that children and visitors may not be present in classrooms when in session or laboratories at any time.

Access Statement

If you have a disability and require reasonable classroom accommodations, please see me after class or make an appointment during office hours. If you plan to request accommodations for a disability, please register with the Office of Disability Services in Room 118, Powell Hall, phone number 912-260-4435. Also, if you find that any content in this course is inaccessible because of your disability, please contact me as soon as possible.