

LURLEEN B. WALLACE COMMUNITY COLLEGE

COURSE SYLLABUS

CONTACT INFORMATION

Instructor Name: Brian Cushing
Campus Location: Andalusia
Office Location: Administration Building, Room 202
Office Phone: 881-2229
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Office Hours: Posted on office door
Campus Mailing Address: 1000 Dannelly Blvd.
Andalusia, AL 36420

COURSE NUMBER AND TITLE

PHS 111 Physical Science I

PREREQUISITES

There are no prerequisites for admission to this course.

DIVISION AND DEPARTMENT

Math/Science Division

SEMESTER HOURS CREDIT

Four (4) hours

CATALOG DESCRIPTION

This course provides the non-technical student with an introduction to the basic principles of geology, oceanography, meteorology, and astronomy. A 120-minute laboratory is required.

TEXTBOOK(S)

Title: Physical Science, 7th ed.
Author: Tillery, Bill W.
Publisher: McGraw-Hill
Year: 2007
ISBN: 0-07-304992-1

TECHNOLOGY REQUIREMENTS

Calculator (Texas Instruments TI-36X is recommended)

SUPPLEMENTARY MATERIAL

Laboratory handouts (provided by instructor)

COURSE OBJECTIVES

Upon completion of each chapter, the student will:

CHAPTER 1: What is Science?

1. Understand standard units of measure
2. Be able to perform metric measurements
3. Be able to perform unit conversions

CHAPTER 14: The Universe

1. Be able to identify the major components of the Universe and understand their features, including stars and galaxies
2. Understand celestial distance and location of objects in space

CHAPTER 15: The Solar System

1. Be able to identify the major components of the solar system including the planets, their moons, comets, asteroids and meteorites
2. Understand the behavior of the components in the solar system

CHAPTER 16: Earth in Space

1. Understand how the Earth functions in the solar system
2. Understand the function of the calendar, latitude and longitude, and time calculation

CHAPTER 17: Rocks and Minerals

1. Be able to identify the major minerals and categories of rocks in Earth's crust

CHAPTER 18: Plate Tectonics and Earth's Interior

1. Be able to identify the different parts of Earth's interior
2. Understand the theorized movement of Earth's plates and the effect it has on the features of Earth's surface

CHAPTER 19: Building Earth's Surface

1. Be able to identify the different types of folds and faults in Earth's crust
2. Understand the causes of earthquakes and how they are measured
3. Be able to identify the different types of volcanoes and eruptions

CHAPTER 20: Shaping Earth's Surface

1. Understand the concepts of weathering, erosion, and transportation and the different types of erosion and weathering.

CHAPTER 21: Fossils and Geologic Time

1. Be able to identify the different types of fossilization and understand their function in determining the age of the Earth
2. Understand modern dating techniques

CHAPTER 22: The Atmosphere of Earth

1. Be able to identify the composition of Earth's atmosphere

2. Understand atmospheric pressure and how the atmosphere is warmed
3. Be able to identify both local and global wind patterns
4. Understand the concept of humidity and the formation of fog and clouds

CHAPTER 23: Weather and Climate

1. Be able to identify and understand the formation of the different types of precipitation, air masses, and storms
2. Be able to identify the different climates and climatic influence

CHAPTER 24: Earth's Waters

1. Be able to identify the different types of water on earth and the major oceans
2. Be able to identify the major features of the ocean and salinity

TEACHING METHODS

Lectures using PowerPoint.

ATTENDANCE POLICY

Students are expected to attend all classes for which they are registered. Students who are unable to attend class regularly, regardless of the reason or circumstance, should withdraw from that class before poor attendance interferes with the student's ability to achieve the objectives required in the course.

WITHDRAWAL

A student may withdraw from a course or all courses without a grade penalty up to fourteen (14) days prior to the first day of final exams for the fall and spring terms. For the summer term, students may withdraw from classes up to seven (7) days prior to the first day of final exams for each session. The final date for official withdrawal is printed in the college calendar and published in each class schedule. A student who receives Title IV Federal Financial Aid (for example, Pell Grant) may have to repay funds if he/she withdraws prior to completing 60 percent of the semester. See the Director of Financial Aid for more specific information.

EVALUATION PROCEDURES

There will be 5 written tests and labs that students are required to complete. The 5 written tests will be a mixture of multiple choice, matching, fill in the blank, true/false and discussion. The two lowest lab grades will be dropped. Students will be required to view several videos and complete a response sheet. Each response sheet will count the same as a lab grade and will count as part of the lab average. The material the tests will cover are as follows:

Grading Scale

90–100	A
80–89	B
70–79	C
60–69	D
Below 60	F

Class Average Calculation

Written exams	40%
Quizzes	15%
Final exam	20%
Laboratory grade	25%

MAKE-UP POLICY

Students who need to make up a test must do so within a week of returning to class. After that date, 10 points will be dropped from the students test grade for each day the student does not make up the test. **ALL MAKE UP TESTS ARE ENTIRELY FILL IN THE BLANK AND ESSAY, REGARDLESS OF THE REASON FOR MISSING THE TEST.***

**If you are an athlete, ensemble member, or drama team member and miss a test due to a game or performance, you may take the same test the class takes ONLY IF you take it before the scheduled date for the test. This exception also applies to students who miss a test for a college related event, e.g., Ms. LBW beauty pageant, PTK national convention, Scholar's Bowl competitions.

LABS CANNOT BE MADE UP.

LATE WORK

Late work will be accepted on in extremely extenuating circumstances beyond the control of the student.

ACADEMIC HONESTY

Students are expected to follow the Student Code of Conduct as described in the current college catalog (pages 157-159). Cheating and plagiarism violate these standards and may result in disciplinary action, including expulsion.

POLICY ON REASONABLE ACCOMODATIONS FOR PEOPLE WITH DISABILITIES

Lurleen B. Wallace Community College complies with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. If you have a disability that might require special materials, services, or assistance, or if you have any questions relating to accessibility, please contact the ADA Coordinator on the respective campuses. For TDD users in Alabama, the Alabama Relay Center is available by calling 1-800-548-2546. All materials related to compliance with the Americans with Disabilities Act are maintained by the college coordinators.

Andalusia Campus
Bridges Anderson
334-881-2247

Greenville Campus
Dr. Jean Thompson
334-382-2133 ext. 3102

MacArthur Campus
Jason Cain
334-493-3573 ext. 5363

SAFETY

Lab safety issues will be discussed with students during the first lab meeting.

INCOMPLETE (I) GRADE

A grade of **Incomplete (I)** may be assigned when the quality of work has been passing but the student has been prevented by illness or other justifiable cause from completing the required work or taking the final examinations. A student who must miss a final examination has the responsibility of notifying the instructor prior to the examination or as soon thereafter as possible and of furnishing acceptable evidence concerning the cause of the absence upon return. If the cause is personal illness, the student should present the instructor a statement signed by the appropriate health care professional. A grade of Incomplete (I) must be cleared by the last class day of the following term or the grade automatically becomes an F. It is the student's responsibility to contact the instructor and to make up missed course assignments and/or examinations.

OTHER

Additional course information may be announced by the instructor, and the instructor may make changes to this syllabus.

Physical science, the systematic study of the inorganic world, as distinct from the study of the organic world, which is the province of biological science. This article discusses the historical development with due attention to the scope, principal concerns, and methods of astronomy, chemistry, and physics. No. Biology, the study of living things, is not one of the physical sciences. The physical sciences do not study living things (though the principles and methods of the physical... Physical science is a branch of natural science that studies non-living systems, in contrast to life science. It in turn has many branches, each referred to as a "physical science", together called the "physical sciences". Physical science can be described as all of the following: A branch of science (a systematic enterprise that builds and organizes knowledge in the form of testable explanations and predictions about the universe). Physical Sciences. Biology, chemistry, engineering, medicine pull them apart bit by bit and, at their most fundamental level, they all come down to physics. So, if you want to understand how a bumblebee flies, or how human metabolism works, or how to design a wind turbine that doesn't fall down, study physics. The Physical Sciences subject set. Which Physical Sciences subjects should I take? That depends! There are several subjects available, and you'll choose initially based on your existing physics...