LEARNING OUTCOMES AND ASSESSMENT
Upon completion of this course, the student will gain factual knowledge in science, learn fundamental principles of science, and gain a broader understanding and appreciation of science. Learning outcomes will be assessed through Article Mark-ups (CT1), in-class activities (EQS1 and EQS2), 3 exams, and a group project (CS3 and TW2). Your course grade consists of Article Mark-ups (10%), in-class activities (40%), exams (40%), and group project (10%).

REQUIRED MATERIALS
“The Physical Universe”, 15th edition or earlier, by Krauskopf and Beiser (McGraw Hill, 2003 through 2014) available from online sites such as Amazon is required reading for this course. A calculator is needed to complete in-class activities. Exams must be completed in pencil. Therefore, you will need a calculator or smartphone and a pencil with you at each class meeting.

Instructor
Email awallace@angelo.edu
Work Phone 486-6516
Office Location VIN 125
Office Hours MW 2-4:30 pm or by appointment

DISCLAIMERS
Academic Integrity
Angelo State University expects its students to maintain complete honesty and integrity in their academic pursuits. Students are responsible for understanding the Academic Honor Code, which is contained in both print and web versions of the Student Handbook.

American Disability Act
Persons with disabilities which may warrant academic accommodations must contact the Student Life Office, Room 112 University Center, in order to request and to implement academic accommodations.

Attendance
Attendance is required and will be taken through in-class activities, random pop quizzes, and one-minute papers. You must be in-class to receive credit for in-class activities. Make-up exams must be pre-arranged with the instructor before scheduled exam dates on the schedule below.

Religious Holy Day
A student who intends to observe a religious holy day should make that intention known in writing to the instructor prior to the absence. A student who is absent from classes for the observance of a religious holy day shall be allowed to take an examination or complete an assignment scheduled for that day within a reasonable time after the absence.
LESSONS

Course Overview
Blackboard, syllabus, and course requirements.
January 14, 2019

The Periodic Law
Elements, compounds, periodic law, atomic structure, and chemical bonds.
January 16, 2019

Crystals, Ions, and Solutions
Solids, Solutions, Acids, and Bases
January 23, 2019

Chemical Reactions
Quantitative chemistry, chemical energy, reaction rates, oxidation, and reduction
January 30, 2019

Organic Chemistry
Carbon, structures, hydrocarbons, and the chemistry of life
February 6, 2019

Exam #1 Review and Information Literacy
Requirements
February 18, 2019

Exam #1
Bring a pencil, Parscore answer form is provided for you.
February 20, 2019

Atmosphere and Hydrosphere
The atmosphere, weather, climate, and hydrosphere
February 22, 2019

Spring Break
March 11-15, 2019

The Rock Cycle
Minerals, rocks, earthquakes, vulcanism, and erosion
March 18, 2019

The Evolving Earth
Isostasy, Diastrophism, Tectonics, and historical geology
March 25, 2019

Exam #2 Review and Group Project Requirements
Group Project guidelines, review for Exam #2,
Article Mark-ups due!
April 2, 2019

Exam #2
Bring a pencil, Parscore answer form is provided for you.
April 3, 2019

The Solar System
Sun, Inner planets, Outer planets, and the Moon
April 5, 2019

The Stars
Telescopes, the Sun, stars, and stellar evolution
April 17, 2019

The Universe
Galaxies, quasars, expansion, and the search for extraterrestrial life
April 26, 2019

Final Exam Review
Group Projects due and review for final exam.
May 3, 2019

Final Exam
Bring a pencil, Parscore answer form is provided for you.
May 8, 2017
8:00 AM - 10:00 AM