PS 1117.01z
Introduction to Physical Science
Laboratory II

Instructor: Charles Allen
Email: charles.allen@angelo.edu
Phone: 325-486-6780
Office: Vincent 126

Office Hours: T 15:00-17:00 (3 to 5 pm), W 10:30-13:00 (10:30 am to 1 pm) or by appointment

Course Information

Course Description
This course serves as a laboratory introduction to the Physical Sciences, and is intended to accompany the Physical Science 1315 course.

Student Learning Outcomes
Upon completion of this course, students will:

• understand scientific reasoning in the natural sciences, and
• will have demonstrated technical and analytical skills by engaging in quantitative laboratory experimentation.

Course Delivery

There are no make-ups for missed lab meetings or for any quizzes administered during those meetings. If you must miss a lab due to University business, you may request to attend another lab meeting. These arrangements must be made in advance. Students without advance arrangements approved by all instructors will not be allowed to attend any alternate section of lab.
There are no make-ups for lab exams. Please refer to the lab schedule for the exam dates. For very special and unavoidable circumstances, a student may request special arrangements to take an exam early. Such requests will be considered on an individual basis by the instructor, and must be made no later than one week prior to the date of the scheduled exam.

Please refer to this Health and Safety web page for updated information about campus guidelines as they relate to the COVID-19 pandemic.

Required Texts and Materials
There is no required lab manual. You will be required to print and bring a copy of each lab (materials will be made available online ahead of time). You should bring a calculator to lab every week. Although both pencil and pen work will be accepted, excessive mark outs may be counted as wrong answers.

Technology Requirements
To successfully complete this course, students need to be able to use Blackboard, a calculator, and complete the IDEA student ranking of instruction.

Communication
Faculty will respond to email and/or telephone messages within 24 hours during working hours Monday through Friday. Weekend messages may not be returned until Monday.

All private communication will be done exclusively through your ASU email address. Check frequently for announcements and policy changes. In your emails to faculty, include the course name and section number in your subject line. Office hours and/or advising may be done with the assistance of the telephone, Collaborate, Skype, etc.

Grading

Evaluation and Grades
Course grades will be determined as indicated in the table below.

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Percent of Total Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daily Grade</td>
<td>50</td>
</tr>
<tr>
<td>Lab Exams</td>
<td>50</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
</tr>
</tbody>
</table>
The daily grade includes the lab experience hand-in page (handed in at the end of each lab meeting), attendance (recorded at each lab meeting), and class participation. There will be two lab exams during the semester. Each exam will count for 25% of the overall lab grade.

**Grading System**

Course grades will be dependent upon completing course requirements and meeting the student learning outcomes.

The following grading scale is in use for this course:

- **A = 90.00-100 points**
- **B = 80.00-89.99 points**
- **C = 70.00-79.99 points**
- **D = 60.00-69.99 points**
- **F = 0-59.99 points** (Grades are not rounded up)

The instructor reserves the right to lower the thresholds between letter grades (they will never be raised).

**Assignment and Activity Descriptions**

Attendance is required. Makeup exams must be pre-arranged with the instructor before the scheduled exam dates on this syllabus. Online assignments are uploaded in Blackboard. The lowest exam grade will be dropped from the final grade calculation. An academic assessment will be given late in the semester to assess this course as required by the institution.

**General Policies Related to This Course**

All students are required to follow the policies and procedures presented in these documents:

- [Angelo State University Student Handbook](#)
- [Angelo State University Catalog](#)

**Academic Integrity**

Students are expected to maintain complete honesty and integrity in all work. Any student found guilty of any form of dishonesty in academic work is subject of disciplinary action and possible expulsion from ASU.

The College of Science and Engineering adheres to the university’s [Statement of Academic Integrity](#).
Accommodations for Students with Disabilities

ASU is committed to the principle that no qualified individual with a disability shall, on the basis of disability, be excluded from participation in or be denied the benefits of the services, programs or activities of the university, or be subjected to discrimination by the university, as provided by the Americans with Disabilities Act of 1990 (ADA), the Americans with Disabilities Act Amendments of 2008 (ADAAA) and subsequent legislation.

Student Disability Services is located in the Office of Student Affairs, and is the designated campus department charged with the responsibility of reviewing and authorizing requests for reasonable accommodations based on a disability. It is the student’s responsibility to initiate such a request by contacting an employee of the Office of Student Affairs, in the Houston Harte University Center, Room 112, or contacting the department via email at ADA@angelo.edu. For more information about the application process and requirements, visit the Student Disability Services website. The employee charged with the responsibility of reviewing and authorizing accommodation requests is:

Dallas Swafford
Director of Student Disability Services
Office of Student Affairs
325-942-2047
dallas.swafford@angelo.edu
Houston Harte University Center, Room 112

Incomplete Grade Policy

It is policy that incomplete grades be reserved for student illness or personal misfortune. Please contact faculty if you have serious illness or a personal misfortune that would keep you from completing course work. Documentation may be required. See ASU Operating Policy 10.11 Grading Procedures for more information.

Plagiarism

Plagiarism is a serious topic covered in ASU’s Academic Integrity policy in the Student Handbook. Plagiarism is the action or practice of taking someone else’s work, idea, etc., and passing it off as one’s own. Plagiarism is literary theft.

In your discussions and/or your papers, it is unacceptable to copy word-for-word without quotation marks and the source of the quotation. It is expected that you will summarize or paraphrase ideas giving appropriate credit to the source both in the body of your paper and the reference list.
Papers are subject to be evaluated for originality. Resources to help you understand this policy better are available at the ASU Writing Center.

Student Absence for Observance of Religious Holy Days
A student who intends to observe a religious holy day should make that intention known in writing to the instructor prior to the absence. See ASU Operating Policy 10.19 Student Absence for Observance of Religious Holy Day for more information.

Title IX at Angelo State University
The University prohibits discrimination based on sex, which includes pregnancy, sexual orientation, gender identity, and other types of Sexual Misconduct. Sexual Misconduct is a broad term encompassing all forms of gender-based harassment or discrimination including: sexual assault, sex-based discrimination, sexual exploitation, sexual harassment, public indecency, interpersonal violence (domestic violence and/or dating violence), and stalking. As a faculty member, I am a Responsible Employee meaning that I am obligated by law and ASU policy to report any allegations I am notified of to the Office of Title IX Compliance.

Students are encouraged to report any incidents of sexual misconduct directly to ASU’s Office of Title IX Compliance and the Director of Title IX Compliance/Title IX Coordinator at:

Michelle Miller, J.D.
Special Assistant to the President and Title IX Coordinator
Mayer Administration Building, Room 210
325-486-6357
michelle.boone@angelo.edu

You may also file a report online 24/7.

If you are wishing to speak to someone about an incident in confidence you may contact the University Health Clinic and Counseling Center at 325-942-2173 or the ASU Crisis Helpline at 325-486-6345.

For more information, visit the Title IX website.

Required Use of Masks/Facial Coverings by Students
As a member of the Texas Tech University System, Angelo State University has adopted the mandatory Facial Covering Policy to ensure a safe and healthy classroom.
experience. Current research on the COVID-19 virus suggests there is a significant reduction in the potential for transmission of the virus from person to person by wearing a mask/facial covering that covers the nose and mouth areas. Therefore, in compliance with the university policy students in this class are required to wear a mask/facial covering before, during, and after class. Faculty members may also ask you to display your daily screening badge as a prerequisite to enter the classroom. You are also asked to maintain safe distancing practices to the best of your ability. For the safety of everyone, any student not appropriately wearing a mask/facial covering will be asked to leave the classroom immediately. The student will be responsible to make up any missed class content or work. Continued non-compliance with the Texas Tech University System Policy may result in disciplinary action through the Office of Student Conduct.

Modifications to the Syllabus
This syllabus, including grade evaluation and course schedule, is subject to modification. In particular, the COVID-19 pandemic may require significant changes in course delivery and content on potentially short notice.
## Course Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Week Starting...</th>
<th>Laboratory exercise</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Jan 25</td>
<td>no lab</td>
</tr>
<tr>
<td>2</td>
<td>Feb 1</td>
<td>The Periodic Table and Systematic Thinking</td>
</tr>
<tr>
<td>3</td>
<td>Feb 8</td>
<td>Chemical Analysis: Using Chromatography</td>
</tr>
<tr>
<td>4</td>
<td>Feb 15</td>
<td>Chemical Reactions: Qualitative Chemical Analysis</td>
</tr>
<tr>
<td>5</td>
<td>Feb 22</td>
<td>Environmental Chemistry: Water Quality Assessment</td>
</tr>
<tr>
<td>6</td>
<td>Mar 2</td>
<td>Mathematical Modeling: The Spread of Disease</td>
</tr>
<tr>
<td>7</td>
<td>Mar 8</td>
<td>no lab</td>
</tr>
<tr>
<td>8</td>
<td>Mar 15</td>
<td>Midterm Lab Exam</td>
</tr>
<tr>
<td>9</td>
<td>Mar 22</td>
<td>Minerals: The Special Ingredient</td>
</tr>
<tr>
<td>10</td>
<td>Mar 29</td>
<td>Plate Tectonics: Discovering Plate Boundaries</td>
</tr>
<tr>
<td>11</td>
<td>Apr 5</td>
<td>Earthquakes: Finding the Epicenter</td>
</tr>
<tr>
<td>12</td>
<td>Apr 12</td>
<td>Scale of the Solar System</td>
</tr>
<tr>
<td>13</td>
<td>Apr 19</td>
<td>Phases of the Moon</td>
</tr>
<tr>
<td>14</td>
<td>Apr 26</td>
<td>Constellations(?), special schedule in planetarium</td>
</tr>
<tr>
<td>15</td>
<td>May 3</td>
<td>Final Lab Exam</td>
</tr>
<tr>
<td>16</td>
<td>May 10</td>
<td>no lab</td>
</tr>
</tbody>
</table>

---

2. [https://www.angelo.edu/current-students/student-handbook/](https://www.angelo.edu/current-students/student-handbook/)
3. [https://www.angelo.edu/academics/catalog/](https://www.angelo.edu/academics/catalog/)
5. [https://www.angelo.edu/current-students/disability-services/](https://www.angelo.edu/current-students/disability-services/)
6. [https://www.angelo.edu/content/files/14197-op-1011-grading-procedures](https://www.angelo.edu/content/files/14197-op-1011-grading-procedures)
8. [https://www.angelo.edu/current-students/writing-center/academic_honesty.php](https://www.angelo.edu/current-students/writing-center/academic_honesty.php)
9. [https://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of](https://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of)
10. [http://www.angelo.edu/incident-form](http://www.angelo.edu/incident-form)
11. [https://www.angelo.edu/title-ix](https://www.angelo.edu/title-ix)