PS 3312.010
Physical Science Concepts II
Spring 2020, MWF 09:00am – 09:50am, VIN 155

Instructor: Dr. Charles Allen
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Phone: 325-486-6780
Office: VIN 126

Office Hours: Questions are best handled by e-mail during the online portion at the end of the semester.

Course Information

Course Description
A study of physical systems and sub-systems, interactions, variables, motion, energy, electricity, and magnetism.

Prerequisite and Co-requisite Courses
Credit for Mathematics 1314 or 1324.

Student Learning Outcomes
The objective of the study of the physical sciences as a component to the major curriculum for teacher education is to ensure excellence in the instruction of natural science objectives by the teachers in the State of Texas. Specific outcomes and objectives include that the student will:

1. Understand and apply appropriate methods and technology to the study of the natural sciences.
2. Recognize scientific and quantitative methods and the differences between these approaches and other methods of inquiry and to communicate findings, analyses, and interpretation both orally and in writing.
3. Demonstrate technical and analytical skills appropriate to a future career in teaching by engaging in quantitative laboratory experimentation.
4. Demonstrate the intellectual ability to translate, interpret, and extrapolate the most important scientific models and laws governing units and measurement, motion, forces, matter and energy.
5. Further develop critical thinking and problem-solving skills in the area of physics and the natural sciences.
Required Texts and Materials

Course Policy

Attendance
Course attendance is the responsibility of the student. Attendance will be taken at each class meeting. Absences are neither excused or unexcused. Students are expected to be in class for the full time. Students missing more than 10 minutes of class will receive a zero participation grade for that day. For every 3rd absence recorded, a course letter grade will be lost.

During the online portion of the course, attendance will not be taken.

Late Work
Homework is due on the assigned date. No late submissions will be accepted. Make-up quizzes/exams are not allowed. The only exceptions granted are for university-excused absences and religious holidays in which I am notified in advance in writing. Participation grades may only be earned in class on the day of the activity.

During the online portion of the course, participation (daily) grades will be obtained by turning in activity sheets online. Homework grades will be obtained by obtaining completion certificates in "Concept Builders" or by completion of some other paper-based activity.

Evaluation
Course grades are a culmination of activities, quizzes, and tests. Activities include homework, in-class participation grades, manual entries, and projects. There will be a total of six quizzes and two tests including the final. Final grades are weighted as follows: tests 30%, quizzes 30%, and activities 40%.

During the online portion of the course, only two quizzes will be given, for a total of five quizzes. More assigned homework will be assigned.

Etiquette
Teams of four students will conduct the investigations. Team assignments will be made at the beginning of the term and may be changed regularly. The use of cell phones during class is strictly forbidden. Any student observed using a cell phone during instructional
time will receive a participation grade of zero for that day. Any student not respecting the learning environment and the learning process of their peers will be asked to leave.

During the online portion of the course, students are expected to turn in their own work. Students are encouraged to discuss activities and homework with other students, but any work turned in should be work that you have done.

Course Schedule

<table>
<thead>
<tr>
<th>Lec ID</th>
<th>Date</th>
<th>Schedule</th>
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<tbody>
<tr>
<td>INTRO</td>
<td>Jan 13</td>
<td>Introduction and Safety</td>
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<tr>
<td>Ea</td>
<td>Jan 15</td>
<td>Electric Charge E1, E2</td>
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<td>Eb</td>
<td>Jan 17</td>
<td>E3, E4</td>
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<td>Jan 20</td>
<td>MLK Jr. Day</td>
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<tr>
<td>Ec</td>
<td>Jan 22</td>
<td>E4</td>
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<tr>
<td>Ed</td>
<td>Jan 24</td>
<td>E5</td>
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<tr>
<td>ECa</td>
<td>Jan 27</td>
<td>Q-EC, Electric Circuits EC1</td>
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<td>ECb</td>
<td>Jan 29</td>
<td>EC2</td>
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<td>ECc</td>
<td>Jan 31</td>
<td>EC3, EC4</td>
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<td>ECd</td>
<td>Feb 3</td>
<td>EC4, EC5</td>
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<td>ECe</td>
<td>Feb 5</td>
<td>EC5, EC6</td>
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<td>ECf</td>
<td>Feb 7</td>
<td>EC7</td>
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<td>ECg</td>
<td>Feb 10</td>
<td>EC8</td>
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<td>ECh</td>
<td>Feb 12</td>
<td>EC9</td>
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<td>Ec</td>
<td>Feb 14</td>
<td>EC10</td>
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<td>Ma</td>
<td>Feb 17</td>
<td>Q-EC, Magnetism M1, M2</td>
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<td>Mb</td>
<td>Feb 19</td>
<td>M2, M3</td>
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<td>Mc</td>
<td>Feb 21</td>
<td>M3, M4</td>
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<td>Md</td>
<td>Feb 24</td>
<td>M5, M6</td>
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<tr>
<td>Me</td>
<td>Feb 26</td>
<td>M7, M8</td>
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<tr>
<td>Mf</td>
<td>Feb 28</td>
<td>M8</td>
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<td>Mg</td>
<td>Mar 2</td>
<td>Q-M, Review</td>
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<td>X1</td>
<td>Mar 4</td>
<td>Mid-Term Exam (E, EC, M)</td>
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<td>La</td>
<td>Mar 6</td>
<td>Light and Color L1</td>
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<td>Mar 9-13</td>
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<td>Mar 16</td>
<td>Spring Break</td>
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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 Days 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 Boone, J.D.
Director of Title IX Compliance/Title IX Coordinator
Mayer Administration Building, Room 210
325-942-2022
michelle.boone@angelo.edu

You may also file a report online 24/7 at www.angelo.edu/incident-form.

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 about Title IX in general you may visit www.angelo.edu/title-ix.

1 https://www.angelo.edu/student-handbook/
2 https://www.angelo.edu/catalogs/
3 https://www.angelo.edu/student-handbook/community-policies/academic-integrity.php
4 https://www.angelo.edu/services/disability-services/
5 https://www.angelo.edu/content/files/14197-op-1011-grading-procedures
6 https://www.angelo.edu/student-handbook/community-policies/academic-integrity.php
7 https://www.angelo.edu/dept/writing_center/academic_honesty.php
8 https://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of