Instructor: Andrew B. Wallace
Email: awallace@angelo.edu
Phone: 3254866516
Office: Vincent 125

Office Hours: 2:00-4:30 pm TW or by appointment

Course Information

Course Description
An introduction to the foundations of physical science, including selected areas of physics, chemistry, earth science, and space science.

Prerequisite and Co-requisite Courses
Credit for at least one college-level mathematics course.

Prerequisite Skills
Ability to use Blackboard, a calculator, and participate in class activities are expectations of the course.

Student Learning Outcomes
Upon completion of this course, students will:
- gain factual knowledge in science,
- learn fundamental principles of science, and
- gain a broader understanding and appreciation of science.

Course Delivery
This course is a hybrid course with half of the enrollment attending live lectures in Vincent 158 and the other half of the enrollment watching lecture videos in Blackboard. See the Course Schedule below to determine when you attend class in Vincent 158 and when you watch lecture videos in Blackboard.

Required Texts and Materials
There is no required text for this course. A student of this institution is not under any obligation to purchase a textbook from a university-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer.
Technology Requirements
To successfully complete this course, students need to be able to use Blackboard, a calculator, a graphing program such as Microsoft Excel or Google Sheets, 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.

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>In-class Activities</td>
<td>30%</td>
</tr>
<tr>
<td>Exams</td>
<td>60%</td>
</tr>
<tr>
<td>Group Project</td>
<td>10%</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
</tr>
</tbody>
</table>

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 = 90-100 points
- B = 80-89 points
- C = 70-79 points
- D = 60-69 points
- F = 0-59 points (half points are rounded up)

Assignment and Activity Descriptions
A Group Project that assesses critical thinking, teamwork, visual communication, and empirical and quantitative science is required. Instructions for the Group Project and how to complete and submit it are located in Blackboard. Two midterm exams and one final exam are required. Exams are completed and submitted through Blackboard. See the course schedule for due dates.

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 to disciplinary action and possible expulsion from ASU.

The College of Science and Engineering adheres to the university’s [Statement of Academic Integrity](#).³

**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](mailto:ADA@angelo.edu). For more information about the application process and requirements, visit the [Student Disability Services website](#).⁴ 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.7

**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 Day8 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.

**Course Schedule**

<table>
<thead>
<tr>
<th>Date</th>
<th>Lessons/Activities/Assignments</th>
</tr>
</thead>
</table>
| Aug 18| **Due Aug 18 by 11:59 PM**<br>In Blackboard:  
  • Review *Course Expectations* Video  
  • Review *Syllabus*  
  • Determine your assigned Group 1 or 2 by clicking on *My Group*  
  • Complete and Submit: *Ask the Professor Survey* |
| Aug 20| The Beginnings of Science  
  • Group 1 attends lecture in VIN 158  
  • Group 2 views lecture video in Blackboard |
<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aug 25</td>
<td>Galilean Motion</td>
<td>- Group 1 views lecture video in <em>Blackboard</em></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Group 2 attends lecture in <em>VIN 158</em></td>
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<tr>
<td>Aug 27</td>
<td>Forces and Newton’s Laws</td>
<td>- Group 1 attends lecture in <em>VIN 158</em></td>
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<tr>
<td></td>
<td></td>
<td>- Group 2 views lecture video in <em>Blackboard</em></td>
</tr>
<tr>
<td>Sep 1</td>
<td>Science and Pseudoscience</td>
<td>- Group 1 views lecture video in <em>Blackboard</em></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Group 2 attends lecture in <em>VIN 158</em></td>
</tr>
<tr>
<td>Sep 3</td>
<td>Work and Energy</td>
<td>- Group 1 attends lecture in <em>VIN 158</em></td>
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<tr>
<td></td>
<td></td>
<td>- Group 2 views lecture video in <em>Blackboard</em></td>
</tr>
<tr>
<td>Sep 8</td>
<td>Temperature and Heat</td>
<td>- Group 1 views lecture video in <em>Blackboard</em></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Group 2 attends lecture in <em>VIN 158</em></td>
</tr>
<tr>
<td>Sep 10</td>
<td>Fluids</td>
<td>- Group 1 attends lecture in <em>VIN 158</em></td>
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<tr>
<td></td>
<td></td>
<td>- Group 2 views lecture video in <em>Blackboard</em></td>
</tr>
<tr>
<td>Sep 15</td>
<td>In Blackboard</td>
<td>- <em>Collaborate Session: Midterm #1 Review</em></td>
</tr>
<tr>
<td>Sep 17</td>
<td><strong>Due Sep 17</strong></td>
<td>- <em>Complete and Submit: Midterm Exam #1</em></td>
</tr>
<tr>
<td>Sep 22</td>
<td>Thermodynamics</td>
<td>- Group 1 views lecture video in <em>Blackboard</em></td>
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<tr>
<td></td>
<td></td>
<td>- Group 2 attends lecture in <em>VIN 158</em></td>
</tr>
<tr>
<td>Sep 24</td>
<td>Electricity</td>
<td>- Group 1 attends lecture in <em>VIN 158</em></td>
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<tr>
<td></td>
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<td>- Group 2 views lecture video in <em>Blackboard</em></td>
</tr>
<tr>
<td>Sep 29</td>
<td>Magnetism</td>
<td>- Group 1 views lecture video in <em>Blackboard</em></td>
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<td></td>
<td></td>
<td>- Group 2 attends lecture in <em>VIN 158</em></td>
</tr>
<tr>
<td>Oct 1</td>
<td>Electromagnetism</td>
<td>- Group 1 attends lecture in <em>VIN 158</em></td>
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<td>- Group 2 views lecture video in <em>Blackboard</em></td>
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<tr>
<td>Oct 6</td>
<td>Wave Behavior</td>
<td>- Group 1 views lecture video in <em>Blackboard</em></td>
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<tr>
<td></td>
<td></td>
<td>- Group 2 attends lecture in <em>VIN 158</em></td>
</tr>
<tr>
<td>Oct 8</td>
<td>Light and Color</td>
<td>- Group 1 attends lecture in <em>VIN 158</em></td>
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<tr>
<td></td>
<td></td>
<td>- Group 2 views lecture video in <em>Blackboard</em></td>
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<tr>
<td>Oct 13</td>
<td>History of the Atom</td>
<td>- Group 1 views lecture video in <em>Blackboard</em></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Group 2 attends lecture in <em>VIN 158</em></td>
</tr>
<tr>
<td>Oct 15</td>
<td>Science of the Atom</td>
<td>- Group 1 attends lecture in <em>VIN 158</em></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Group 2 views lecture video in <em>Blackboard</em></td>
</tr>
<tr>
<td>Oct 20</td>
<td>In Blackboard</td>
<td>- <em>Collaborate Session: Midterm #2 Review</em></td>
</tr>
</tbody>
</table>
| Oct 22 | **Due Oct 22**  
In Blackboard  
- *Complete and Submit: Midterm Exam #2* |
| Oct 27 | **University closed**  
- Group 1 views lecture video in *Blackboard*  
- Group 2 attends lecture in *VIN 158* |
| Oct 29 | **Radioactivity**  
- Group 1 attends lecture in *VIN 158*  
- Group 2 views lecture video in *Blackboard* |
| Nov 3 | **Nuclear Energy**  
- Group 1 views lecture video in *Blackboard*  
- Group 2 attends lecture in *VIN 158* |
| Nov 5 | **Elementary Particles**  
- Group 1 attends lecture in *VIN 158*  
- Group 2 views lecture video in *Blackboard* |
| Nov 10 | **Quantum Trends and Relativity**  
- Group 1 views lecture video in *Blackboard*  
- Group 2 attends lecture in *VIN 158* |
| Nov 12 | **Art and Science**  
- Group 1 attends lecture in *VIN 158* |
| Nov 17 | **Art and Science**  
- Group 2 attends lecture in *VIN 158* |
| Nov 19 | **In Blackboard**  
- *Collaborate Session: Final Exam Review*  
**Due Nov 19**  
- *Complete and Submit: Group Project*  
**Nov 24** | **In Blackboard**  
- *Complete and Submit: Final Exam* |

*all due times are 11:59 pm CST, unless otherwise specified*

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1. [https://www.angelo.edu/student-handbook/](https://www.angelo.edu/student-handbook/)
2. [https://www.angelo.edu/catalogs/](https://www.angelo.edu/catalogs/)
4. [https://www.angelo.edu/services/disability-services/](https://www.angelo.edu/services/disability-services/)
5. [https://www.angelo.edu/content/files/14197-op-1011-grading-procedures](https://www.angelo.edu/content/files/14197-op-1011-grading-procedures)
7. [https://www.angelo.edu/dept/writing_center/academic_honesty.php](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](https://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of)