Course Information

Course Description
Physical Science 3311 is a study of physical systems and subsystems, interactions, measurements, unit systems, motion, forces, energy, properties of matter, and Earth sciences.

Prerequisite and Co-requisite Courses
MATH 1314 College Algebra or MATH 1324 Finite Mathematics I

Prerequisite Skills
Accessing Internet websites, using ASU Library resources, and proficiency with Microsoft Word and creating PDF documents.

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.

Course Delivery

This is a hybrid online and face-to-face course offering. Most lectures and activities will be posted via blackboard and completed before class. The once-per-week, face-to-face classroom will be used for socially-distanced activities, homework, recitation, review, and concept mastery.

Statement for Asynchronous Remote Sessions

To maintain academic quality while accommodating social distancing needs this semester, this course will use a split delivery model that combines face-to-face teaching with remote instruction.

The goal is to provide face-to-face instruction to students who want to return to campus, while also allowing students who may need to learn remotely to participate via virtual class sessions.

How Does It Work?

Your class will be divided and you will be placed into a smaller group of students to maintain physical distancing requirements in our assigned classroom space.

Your assigned group will receive a schedule of in-person class meetings. This schedule is not flexible. For instance, if you are supposed to attend class on a Monday, you cannot elect to go on Wednesday with another class group instead.

When you are not in the physical class, you will be responsible for completing assigned coursework in Blackboard. This work can be completed any time before the posted deadline.

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

- You will need a webcam for use with Respondus LockDown Browser and Monitor.
  You will also need a picture ID for Respondus Monitor. More info below.
- I will provide all documents. You will need access to a printer for roughly 30 pages.
For several assignments, you will need common math and geometry equipment such as a ruler, a straight edge, a compass, and a protractor for measuring angles.

Technology Requirements
To successfully complete this course, students need to have access to a smart phone with camera, a printer, a capable computer with Microsoft Office, Respondus LockDown Browser, a webcam, and a picture ID such as your student ID card.

Respondus LockDown Browser and Monitor
This course requires the use of LockDown Browser and a webcam for online exams. The webcam can be the type that's built into your computer or one that plugs in with a USB cable. This brief video will give you a basic understanding:

Download and install LockDown Browser from this link:
https://download.respondus.com/lockdown/download.php?id=384131921

Once Installed
Start LockDown Browser
Log into Blackboard Learn
Navigate to the test
Note: You won't be able to access tests with a standard web browser. If this is tried, an error message will indicate that the test requires the use of LockDown Browser. Simply start LockDown Browser and navigate back to the exam to continue.

When taking an online test, follow these guidelines:

- Have a picture ID such as your student ID card available.
- Ensure you're in a location where you won't be interrupted
- Turn off all other devices (e.g. tablets, phones, second computers) and place them outside of your reach
- Before starting the test, know how much time is available for it, and also that you've allotted sufficient time to complete it
- Clear your desk or workspace of all external materials not permitted - books, papers, other devices
- Remain at your computer for the duration of the test
- If the computer, Wi-Fi, or location is different than what was used previously with the "Webcam Check" and "System & Network Check" in LockDown Browser, run the checks again prior to the exam
- To produce a good webcam video, do the following:
  - Avoid wearing baseball caps or hats with brims
- Ensure your computer or device is on a firm surface (a desk or table). Do NOT have the computer on your lap, a bed, or other surface where the device (or you) are likely to move.
- If using a built-in webcam, avoid readjusting the tilt of the screen after the webcam setup is complete.
- Take the exam in a well-lit room, but avoid backlighting (such as sitting with your back to a window).
- Remember that LockDown Browser will prevent you from accessing other websites or applications; you will be unable to exit the test until all questions are completed and submitted.

**Several resources are available if you encounter problems:**
- The Windows and Mac versions of LockDown Browser have a "Help Center" button located on the toolbar. Use the "System & Network Check" to troubleshoot issues. If an exam requires you to use a webcam, also run the "Webcam Check" from this area.
- Respondus has a Knowledge Base available from [www.support.respondus.com](http://www.support.respondus.com). Select the "Knowledge Base" link and then select "Respondus LockDown Browser" as the product. If your problem is with a webcam, select "Respondus Monitor" as your product.
- If you're still unable to resolve a technical issue with LockDown Browser, go to [www.support.respondus.com](http://www.support.respondus.com) and select "Submit a Ticket". Provide detailed information about your problem and what steps you took to resolve it.

**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.

**Written communication via email:** All private communication will be done exclusively through your ASU email address and Blackboard. Check frequently for announcements and policy changes. In your emails to faculty, include the course name and section number in your subject line.

**Virtual communication:** 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>Points out of 600</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daily grades, Assignments, and homework</td>
<td>= 252 pts</td>
</tr>
<tr>
<td>Discussions</td>
<td>6 Events * 8 = 48 pts</td>
</tr>
<tr>
<td>Section Quizzes</td>
<td>6 Quizzes * 20 = 120 pts</td>
</tr>
<tr>
<td>Exams</td>
<td>2 Exams * 90 = 180 pts</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>600 pts</strong></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 = 510 – 600 points
- B = 420 – 509.99 points
- C = 330 – 419.99 points
- D = 220 – 329.99 points
- F = 0 – 219.99 points (Grades are not rounded up)

Assignment and Activity Descriptions
There are four methods of assessment for Student Learning Outcomes:

- The semester will be grouped into six sections: Units and Measure, Motion, Force, Energy, Properties of Matter, and Sound. Section assignments total 252 points and is 42% of your grade.
  - Face-to-face assignments will be completed in class and submitted at the end of class via blackboard. These can only be completed during class. Since this is an experiential class and we will be meeting once per week, attendance and participation is mandatory and cannot be made up.
  - Each section will also have an assortment of online assignments that vary greatly between virtual measurements, taking notes, worksheets, graphs, lab manual completion, homeworks, etcetera. All submissions will be via Blackboard.
  - Any other submissions including email submissions will not be accepted.
- We will have a midterm exam that will only cover the first three sections and a final exam that will cover only the last three section. The practice exams and actual exam will use Respondus LockDown Browser and Monitor. You will need the
Respondus software, a webcam, and a picture ID card. Each exam will be worth 90 points. This totals 180 points and is 30% of your grade.

- Each section will have a quiz worth 20 points. This totals 120 points and is 20% of your grade.
- Each section will also have online meeting/discussion/collaboration worth 8 points on average. The goal here is to discuss what we are learning and to help each other with assignments. This totals 48 points and is 8% of your grade.
- Quizzes and Exams are 300 points and Assignments and Participation are 300 points.

**Due Dates and Late Work**

- All activities will be due on a weekly basis. This will typically be on **SUNDAY AT MIDNIGHT CENTRAL STANDARD TIME** unless otherwise marked.
- This is largely an asynchronous hybrid course. You will have several days to complete all work for each section. **DO NOT** wait to the last minute to complete assignments. Due date extensions will not be granted based on technical issues, health, or personal events.
- Even still, late work is accepted. Late work will at most be worth half credit. The Exams serve as a hard deadline for late work.

**Course Schedule**
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.

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.

**Masks and Facial Coverings**

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.

**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**

Angelo State University is committed to providing and strengthening an educational, working, and living environment where students, faculty, staff, and visitors are free from sex discrimination of any kind. In accordance with Title VII, Title IX, the Violence Against Women Act (VAWA), the Campus Sexual Violence Elimination Act (SaVE), and other federal and state laws, the University prohibits discrimination based on
sex, which includes pregnancy, and other types of Sexual Misconduct. Sexual Misconduct is a broad term encompassing all forms of gender-based harassment or discrimination and unwelcome behavior of a sexual nature. The term includes sexual harassment, nonconsensual sexual contact, nonconsensual sexual intercourse, sexual assault, sexual exploitation, stalking, public indecency, interpersonal violence (domestic violence or dating violence), sexual violence, and any other misconduct based on sex.

You are encouraged to report any incidents involving sexual misconduct to the Office of Title IX Compliance and the Director of Title IX Compliance/Title IX Coordinator, Michelle Boone, J.D. You may submit reports in the following manner:

Online: www.angelo.edu/incident-form
Face to face: Mayer Administration Building, Room 210
Phone: 325-942-2022
Email: michelle.boone@angelo.edu

Note, as a faculty member at Angelo State, I am a mandatory reporter and must report incidents involving sexual misconduct to the Title IX Coordinator. Should you wish to speak to someone in confidence about an issue, you may contact the University Counseling Center (325-942-2371), the 24-Hour Crisis Helpline (325-486-6345), or the University Health Clinic (325-942-2171).

For more information about resources related to sexual misconduct, Title IX, or Angelo State’s policy please visit: www.angelo.edu/title-ix.

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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/
7 https://www.angelo.edu/student-handbook/community-policies/academic-integrity.php
8 https://www.angelo.edu/dept/writing_center/academic_honesty.php
9 https://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of