GENERAL PHYSICS II SYLLABUS
PHYS 1302, Section D10
Summer 2 2020
CRN 40097
MTWRF 10:00am–11:45am
Blackboard Collaborate – Course Room

CONTACT INFORMATION

Dr. Michael C. Holcomb
Office: Dr. Holcomb’s Virtual Office
Phone: 325.486.6787
Email: michael.holcomb@angelo.edu
Webpage: www.mcholcomb.com/teaching

Office Hours
Monday 01:00pm–03:00pm
Tuesday 01:00pm–03:00pm
Wednesday 01:00pm–03:00pm
Thursday 01:00pm–03:00pm
Also available by appointment

REQUIRED MATERIALS
• TopHat.com access – Learn about TopHat on the ASU website.

COURSE OVERVIEW
This course will cover electric fields, magnetic fields, circuits, electromagnetic waves, optics, and topics from modern physics, time permitting.

This course is intended to acquaint students with the scientific method and basic laws of physics, to help students develop a better understanding of physical science in general and develop reasoning skills and strategies to prepare them for other upper-division science classes. To this end, the course will emphasize a mix of conceptual understanding and standard end-of chapter homework solving skills.

Expected Learning Outcomes
The expected learning outcomes for the course, listed below, will be assessed through performance on guided classroom discussions, homework, and embedded questions within the exams.

• Be able to apply scientific reasoning and critical thinking to the solution of problems.
• Gain an understanding of fundamental principles, generalizations, and formulae.
• Develop and demonstrate technical knowledge of major topics outlined in the course overview.
COURSE COMPONENTS

**Lecture & Participation**

Lecture will be offered synchronously at the time the course was originally scheduled via Blackboard Collaborate. In addition, asynchronous lecture material will be offered for those that cannot log in at the regularly scheduled times. A recording of the synchronous lecture and a PDF version of what I write during lecture will be made available.

My recommendation is that everyone participate in the synchronous lecture and use the asynchronous materials to review and refresh as necessary. Following this recommendation will help to maintain as close to the schedule and feel of an in-person course as possible.

We will use TopHat this term during lecture to take attendance, administer quizzes, and complete conceptual checkpoints that will contribute to your participation grade in the course. [TopHat access can be purchased through the ASU website, which offers a discounted price.](#)

Once access has been purchased, you must register yourself at [www.TopHat.com](http://www.TopHat.com). Use both your legal name and your ASU Campus ID number (ex: 87654321) when setting up your account. The course code is **962800**.

Attendance is considered mandatory and will be taken daily. Attendance will directly contribute to your participation grade in the course. Students attending the synchronous lectures will be able to report their attendance daily via TopHat. Students attending asynchronously will be expected to watch the recorded lecture within three days of its delivery and then email me with the TopHat attendance code. A spirit of honesty will be maintained in the attendance policy. Note that you are responsible for everything that we do in lecture, so it is to your advantage to attend.

Additionally, conceptual checkpoints are an integrated part of lecture and will be administered unannounced using TopHat. These checkpoints will only be graded for completion and will sometimes be used as the subject of guided class discussion. Conceptual checkpoints will not have makeup opportunities; however, those participating asynchronously will be allowed to receive credit so long as they include their answers to the checkpoint questions as part of their attendance email.

Please thoroughly read the section of this syllabus regarding classroom etiquette for further information on expectations for lecture attendance.

**Lecture Preparation**

You are expected to have access the assigned texts, paper for notes, and a suitable writing utensil (preferably a pencil with an eraser), and a scientific calculator at every class meeting. You will likely find it helpful to read ahead in the textbook before each class.

**Homework**

Homework will be generally selected from standard end of chapter problems of various textbooks. It will be assigned regularly and will not be collected. Even though the homework is not part of your final grade, it is not in any way optional; it is crucial for your understanding of the course material.

**Exams**

Two (2) take home exams will be administered as scheduled. No makeup exams will be given, so please plan accordingly. All exams will be made available via Blackboard and then submitted for grading via Gradescope. Please see the course calendar on the last page of this syllabus for scheduled exam dates and anticipated content.

**Exam Rules**

Calculators, any assigned texts, and lecture notes are permitted. Cell phones and smart watches are not considered to be calculators regardless of what apps may have been installed. Any other reference materials (including the internet) are not permitted. If I believe that you have made use of restricted materials or devices during the exam, you will be issued a zero for the exam without exception and may be reported to the Office of Student Conduct.
**GRADING POLICIES**

The following scores will be recorded during the course of the semester: Participation, Exam 1, Exam 2, Final Exam. The course grade will be the weighted average of Participation at 25% and Exams at 25% each.

There are no makeup exams; however, the final exam score can replace the lowest midterm. In other words, the three highest scores from Exam 1, Exam 2, Final Exam, and Final Exam will be considered for the course grade.

Your letter grade will be determined on the following scale: F (≤49), D (50-59), C (60-74), B (75-89), A (90-100).

**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.

**CLASSROOM ETIQUETTE**

Attending lecture is mandatory. You are considered both advised and responsible for anything discussed during lecture. Leaving lecture early or arriving late is considered both rude and distracting. If you have an expected reason to depart early, please inform the lecturer at the beginning of class. During our synchronous lectures, please keep your video and microphone muted unless you are directing a question to your professor or have been directed to interact with our peers in a group discussion.

You are encouraged to engage with your peers during class via the chat window; however, all students are expected to be respectful of their peers during lecture by not becoming a distraction. If you become a distraction to other students, then you will be dismissed from class for that day. Some actions, including but not limited to the following, will result in you being considered a distraction to your peers: repeatedly arriving late or leaving early, the use of inappropriate language or humor, and the sharing of untoward materials be they written, auditory, or visual in nature.

As a rule, please reread everything before you send it and treat all of your online interactions as though you were speaking face-to-face with that person.

**INCLUSIVE LEARNING ENVIRONMENT**

(Adapted from Yale Center for Teaching and Learning)

**Civility and Respect**

Our university supports and wants to foster a civil, respectful, and open-minded climate so that all of us can live and work in an environment free of harassment, bias-motivated behaviors, unfair treatment, and fear. The university expects all members of our community to refrain from actions or behaviors that intimidate, humiliate, or demean persons or groups or that undermine their security or self-esteem based on traits related to race, ethnicity, country of origin, religion, gender identity/expression, sexual orientation, age, or physical or mental ability, including learning and/or developmental disabilities and past/present history of mental disorder or other category protected by state or federal law.

**Student Disability Services**

Angelo State University 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. It 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. For
more information about the application process and requirements, visit the Student Disability Services website at www.angelo.edu/ada.

POINT OF CONTACT
Director of Student Disability Services
Dallas A. Swafford
Email: dallas.swafford@angelo.edu
Office
Houston Harte University Center, Room 112
Office Email: ada@angelo.edu
Office Phone: 325.942.2047

Title IX
All community members should enjoy an environment free of any form of harassment, sexual misconduct, discrimination, or intimate partner violence. If you have been the victim of sexual misconduct, we encourage you to report this. If you report this to a faculty/staff member, they must notify our college’s Title IX coordinator about the basic facts of the incident. You may choose to request confidentiality from the University.

If you encounter sexual harassment, sexual misconduct, sexual assault, or discrimination based on race, color, religion, age, national origin, ancestry, sex, sexual orientation, gender identity, or disability please report this to the Office of Title IX Compliance and the Director of Title IX Compliance and Title IX Coordinator, Michelle Boone, J.D at 325.942.2022 or michelle.boone@asu.edu. You may also submit reports online at www.angelo.edu/incident-form.

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.

Point of Contact
Director of Title IX Compliance
and Title IX Coordinator
Michelle Boone, J.D.
Email: michelle.boone@angelo.edu
Office
Mayer Administration Building, Room 210
Office Phone: 325.942.2022
Report an incident: www.angelo.edu/incident-form

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.

ACADEMIC INTEGRITY
Academic integrity is a core institutional value at Angelo State University. It means, among other things, truth in presentation; diligence and precision in citing works and ideas we have used; and acknowledging our collaborations with others. In view of our commitment to maintaining the highest standards of academic integrity, the ASU Code of Conduct and Academic Integrity policy specifically prohibits the following forms of behavior:

- cheating on examinations, problem sets and all other forms of assessment;
- falsification and/or fabrication of data;
• plagiarism, that is, the failure in a dissertation, essay or other written exercise to acknowledge ideas, research, or language taken from others;
• multiple submissions of the same work without obtaining explicit written permission from both instructors before the material is submitted.

This is not an exhaustive list of prohibited behaviors. I encourage each of you to read the Code of Conduct and Academic Integrity policy in full for more information.

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 one or more of the following penalties: written reprimand, probation, suspension, or expulsion.

**Plagiarism**

Plagiarism is a serious topic covered in ASU’s Code of Conduct and Academic Integrity policy in the Student Handbook. Plagiarism is the action or practice of taking someone else’s work, idea, etc., and representing it 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 via Turnitin. Resources to help you better understand plagiarism and academic honesty are available at the ASU Writing Center.

**Copyright Policy**

Students officially enrolled in this course should make only one printed copy of the given articles and/or chapters. You are expressly prohibited from distributing or reproducing any portion of course readings in printed or electronic form without written permission from the copyright holders or publishers.

**STRATEGIES FOR SUCCESS**

Be prepared! These tips will help you keep up, make for more productive classroom interaction, and help you be prepared for homework, labs, and exams that make up your semester grade.

- Pay special attention to examples worked in class.
- Study your notes.
- Read the material in the text before we cover it in class.
- Begin all homework assignments as soon as possible. Don’t get behind or wait until just before an exam to begin.
- Make use of the free in-person and online tutoring services available through the Tutoring Center.
- Supplemental Instruction (SI) sessions for some classes are offered through the campus Tutoring Center. These sessions can help you review difficult concepts as a group.
- If you are stuck, come by my office with questions during office hours or make an appointment to meet at another time.
- Once you can work through a problem with your notes, book, study group, etc., be sure you can rework it entirely on your own.
- Don’t “blow off” any exam just because there is a dropped score. The purpose of the dropped score is in case of illness or other extenuating circumstances.

**COURSE CALENDAR**

Our tentative course calendar is below. I reserve the right to change this calendar as needed; however, I will inform you in class and via email in advance of any changes.
Remember to check our Blackboard class page regularly for assigned readings and homework. Also remember to check your university email (RamMail) account regularly for class updates and other important university correspondence.

<table>
<thead>
<tr>
<th>Week of</th>
<th>Events</th>
<th>Lecture Topic</th>
<th>Chapter</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 6</td>
<td>Monday, Tuesday: Monday, July 6 – First Day of Class</td>
<td>Electric Charge and Electric Fields</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>Wednesday, Thursday:</td>
<td>Electric Potential and Electric Fields</td>
<td>19</td>
</tr>
<tr>
<td></td>
<td>Friday:</td>
<td>Electric Current, Resistance, and Ohm’s Law</td>
<td>20</td>
</tr>
<tr>
<td>July 13</td>
<td>Monday, Tuesday:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Wednesday, Thursday:</td>
<td>Magnetism</td>
<td>22</td>
</tr>
<tr>
<td></td>
<td>Friday: EXAM 1 (Ch. 18-23) ASSIGNED, Due: July 17&lt;sup&gt;th&lt;/sup&gt;</td>
<td>Electromagnetic Induction</td>
<td>23</td>
</tr>
<tr>
<td>July 20</td>
<td>Monday, Tuesday: Monday, July 20 – EXAM 1 DUE</td>
<td>Electromagnetic Waves</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>Wednesday, Thursday:</td>
<td>Geometric Optics</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>Friday: Friday, July 24 – Last Day to Drop or Withdraw</td>
<td>Vision and Optical Instruments</td>
<td>26</td>
</tr>
<tr>
<td>July 27</td>
<td>Monday, Tuesday:</td>
<td>Wave Optics</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>Wednesday, Thursday:</td>
<td>Quantum Physics</td>
<td>29</td>
</tr>
<tr>
<td></td>
<td>Friday: EXAM 2 (Ch. 24-27, 29-32) ASSIGNED, Due: Aug 3&lt;sup&gt;rd&lt;/sup&gt;</td>
<td>Atomic Physics</td>
<td>30</td>
</tr>
<tr>
<td>Aug 3</td>
<td>Monday: Monday, Aug 3 – EXAM 2 DUE</td>
<td>Nuclear Physics</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>Tuesday: Tuesday Aug 4 – FINAL EXAM (Comprehensive) ASSIGNED</td>
<td>Medical Applications</td>
<td>32</td>
</tr>
<tr>
<td></td>
<td>Wednesday, Aug 5: FINAL EXAM DUE (Comprehensive)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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