

# Physics 240, Spring 2021, Course Syllabus

**Instructor:** Dr. Matthew M. Waite, Merion 133, 610-436-2573, [mwaite@wcupa.edu](mailto:mwaite@wcupa.edu)

The best way to contact me is via e-mail. But, be aware that **I will only read and respond to e-mails written in proper English, with correct grammar, spelling, and etiquette.**

It is expected that faculty, staff, and students activate and maintain regular access to University provided e-mail accounts. Official university communications, including those from your instructor, will be sent through your university e-mail account. You are responsible for accessing that mail to be sure to obtain official University communications. Failure to access will not exempt individuals from the responsibilities associated with this course.

**Class Meeting:** Lecture MWF 2-2:50 (SSN 190)

**Zoom Meeting:** This course will meet via Zoom at the times listed above for lecture. Office hours and other meetings can be conducted through Zoom as well. The Zoom link for the is course is as follows:

<https://wcupa.zoom.us/j/92725252087?pwd=ZEJhKzJldHNFSFRhZDNGLzk4b0JNQT09>

Meeting ID: 927 2525 2087

Password: 015671

**Office Hours:** MWF 9-10:50, T 11-12 or by appointment.

<https://wcupa.zoom.us/j/845113288?pwd=cmx2enJoSEFtVlZlUmxtM0hIYU5YOT09>

**Course Web Page:** [D2L](#)

Course information can be found here throughout the semester. The syllabus, homework problem solutions, and other interesting stuff can be found here. Check it periodically!!

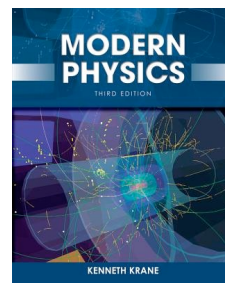
**Text:** *Modern Physics, 3rd Ed.*, by Kenneth Krane, John Wiley & Sons (New York, 2012)

Note: This textbook is available as an e-book on CourseSmart at:

[http://www.coursesmart.com/IR/1276916/9781118061145?\\_hdv=6.8](http://www.coursesmart.com/IR/1276916/9781118061145?_hdv=6.8)

**Grading:**

Exams (4 “hourly”)	12.5% @	50%
Homework		15%
Historical Person Presentation		10%
Attendance/Participation		5%
Cumulative Final		20%



**Attendance:**

You are expected to attend every class period, period.

Excused absences are limited to University-Sanctioned Events (which follow the Excused Absence Policy for University-Sanctioned Events as described in the West Chester University Undergraduate Catalog), and absences due to serious illness or injury (verified by a practicing MD, you must provide me with a phone number), or the death of family members (also to be verified.)

Cell phones and texting are NOT ALLOWED during class. Cell phone use is disruptive to your classmates and to your instructors. Please turn off your phones or put them on **silence**, tuck them away in your bookbag, purse or European carry-all, and forget about them until after class. If I see anyone

texting or using their cell phones during class, I will take 5 points off of the nearest exam grade (that's 5 full points out of 100), and you will be considered "absent" for that day, since you are obviously not mentally present.

### **Exams:**

There will be four hourly exams throughout the semester. These hourly exams will focus on the most recently covered lecture and class material, but they should be considered cumulative in the sense that we will be building upon what we have already learned throughout the semester. I DO NOT give make up exams. If you miss an exam, you will receive a ZERO for that exam and it will be recorded as a zero. Only under very special circumstances will there be any change to this policy, and in those cases, exceptions will be made ONLY when I am notified prior to the scheduled exam time of a conflict. If you have ANY questions or concerns about this particular point, please come talk to me and get clarification BEFORE it's too late!

I will try to arrange to allow for extra time, but this may prove to be difficult considering the number of students enrolled this semester.

### **Homework:**

For each chapter, I have posted an assignment of selected problems. These problems will be selected from the current version of the text and will usually be posted on my course website. The due date is clearly indicated. All homework is due by 4:00 pm on the indicated due date. No homework will be accepted after 4:00 pm on the due date. Solutions will be posted on the web after the due date. Be sure to check the solutions, in most cases I have made every attempt to present the most straightforward solution to a given problem.

At the end of the semester, one homework grade will be dropped, so, if you miss one assignment, it's no big deal. But you don't want to make a habit of it; it could be very damaging to your grade at the end of the semester. Homework is worth 15% of your final grade, more than any one exam!

I encourage you to discuss the homework problems together, and to work and learn together, but any assignment you turn in for a grade must be **YOUR OWN WORK!!** It is in your best interest to learn how to do the problems yourself.

**Intellectual Property Statement:** The instructor utilizes copyrighted materials under the "Freedom and Innovation Revitalizing United States Entrepreneurship Act of 2007" (Fair Use Act). Apart from such copyright protected materials, all other intellectual property associated with this course is owned and copyrighted by the instructor, including, but not limited to, lectures, course discussions, course notes and supplementary materials posted or provided to students authored by the instructor, assessment instruments such as exams, and presentation slides. No recording, copying, storage in a retrieval system, or dissemination in any form by any means of the intellectual property of the instructor, in whole or in part, is permitted without prior written permission of the instructor. When such permission is granted, it must specify the utilization of the intellectual property and all such permissions and waivers shall terminate on the last day of the finals in the semester in which this course is held.

Links and references to on-line resources provided by the instructor may lead to other sites. The instructor does not sponsor, endorse or otherwise approve of any information appearing in those sites, nor is responsible in any way for the content of those sites. The instructor makes no warranty or responsibility for the copyright status of such material. However, should problems with copyright status be brought to the attention of the instructor, reference to offending materials will be removed.

**Common University Syllabus Content: (See Document on D2L)**

**ACADEMIC & PERSONAL INTEGRITY**

It is the responsibility of each student to adhere to the university's standards for academic integrity. Violations of academic integrity include any act that violates the rights of another student in academic work, that involves misrepresentation of your own work, or that disrupts the instruction of the course. Other violations include (but are not limited to): cheating on assignments or examinations; plagiarizing, which means copying any part of another's work and/or using ideas of another and presenting them as one's own without giving proper credit to the source; selling, purchasing, or exchanging of term papers; falsifying of information; and using your own work from one class to fulfill the assignment for another class without significant modification. Proof of academic misconduct can result in the automatic failure and removal from this course. For questions regarding Academic Integrity, the No-Grade Policy, Sexual Harassment, or the Student Code of Conduct, students are encouraged to refer to the Department Undergraduate Handbook, the Undergraduate Catalog, the Ram's Eye View, and the University website at [www.wcupa.edu](http://www.wcupa.edu).

**STUDENTS WITH DISABILITIES**

If you have a disability that requires accommodations under the Americans with Disabilities Act (ADA), please present your letter of accommodations and meet with me as soon as possible so that I can support your success in an informed manner. Accommodations cannot be granted retroactively. If you would like to know more about West Chester University's Services for Students with Disabilities (OSSD), please visit them at 223 Lawrence Center. The OSSD hours of Operation are Monday – Friday, 8:30 a.m. – 4:30 p.m. Their phone number is 610-436-2564, their fax number is 610-436-2600, their email address is [ossd@wcupa.edu](mailto:ossd@wcupa.edu), and their website is at [www.wcupa.edu/ussss/ossd](http://www.wcupa.edu/ussss/ossd).

**EXCUSED ABSENCES POLICY**

Students are advised to carefully read and comply with the excused absences policy, including absences for university-sanctioned events, contained in the WCU Undergraduate Catalog. In particular, please note that the “responsibility for meeting academic requirements rests with the student,” that this policy does not excuse students from completing required academic work, and that professors can require a “fair alternative” to attendance on those days that students must be absent from class in order to participate in a University-Sanctioned Event.

**REPORTING INCIDENTS OF SEXUAL VIOLENCE**

West Chester University and its faculty are committed to assuring a safe and productive educational environment for all students. In order to meet this commitment and to comply with Title IX of the Education Amendments of 1972 and guidance from the Office for Civil Rights, the University requires faculty members to report incidents of sexual violence shared by students to the University's Title IX Coordinator, Ms. Lynn Klingensmith. The only exceptions to the faculty member's reporting obligation are when incidents of sexual violence are communicated by a student during a classroom discussion, in a writing assignment for a class, or as part of a University-approved research project. Faculty members are obligated to report sexual violence or any other abuse of a student who was, or is, a child (a person under 18 years of age) when the abuse allegedly occurred to the person designated in the University protection of minors policy. Information regarding the reporting of sexual violence and the resources

that are available to victims of sexual violence is set forth at the webpage for the Office of Social Equity at [http://www.wcupa.edu/\\_admin/social.equity/](http://www.wcupa.edu/_admin/social.equity/).

#### EMERGENCY PREPAREDNESS

All students are encouraged to sign up for the University's free WCU ALERT service, which delivers official WCU emergency text messages directly to your cell phone. For more information, visit [www.wcupa.edu/wcualert](http://www.wcupa.edu/wcualert). To report an emergency, call the Department of Public Safety at 610-436-3311.

#### ELECTRONIC MAIL POLICY

It is expected that faculty, staff, and students activate and maintain regular access to University provided e-mail accounts. Official university communications, including those from your instructor, will be sent through your university e-mail account. You are responsible for accessing that mail to be sure to obtain official University communications. Failure to access will not exempt individuals from the responsibilities associated with this course.

#### WCU COVID-19 Syllabus Statement

Part of West Chester University's response to the COVID-19 pandemic was to switch all instruction to remote. This decision was made out of an abundance of caution to protect the health of all members of the WCU community. Faculty have been asked to make every effort to adapt their courses to this novel situation while still meeting the critical learning outcomes of the course. These changes may include changes to the dates for exams and other assessments (see the revised course schedule below), and in some cases changes to how the final course grade is calculated. Under remote instruction, some required learning activities may take place outside of the originally scheduled time slot for the course. No student will be penalized for missed attendance during such an asynchronous activity. **Students are asked to discuss any problems with the course format and schedule directly with me via email.** Patience and flexibility on everyone's behalf are critical to our community's navigation of this public health crisis.

For this particular course, the following alternative modalities are being utilized:

**Lecture:** Zoom meets at the regular class meeting time. Please make sure you are signed on before 10:00 am so we can begin promptly. **Meeting ID: 927 2525 2087 (See above for link)**

**It is a violation of state and federal law to record, photograph or screenshot these Zoom meetings and lectures. I, and the University, will prosecute violations.**

I will provide any lecture slides I deem appropriate for posting.

**Exams:** PDF files will be provided on exam day. Since I would like to offer you up to two hours to complete the exam *(again, I am OFFERING this... it is NOT a requirement. If you do not want the extra time to allow for printing, scanning, contacting me for questions, etc, you do not have to take it.)* I will email the exam to you depending on your availability before, after, or during another 2-hour time block on that day. You will let me know before exam day the time (1:00 pm or 2:00 pm) that you want the exam e-mailed to you.

Updated: Thursday, January 21, 2021

The exam will be open book, open notes. But no access to online D2L materials, or other resources such as Google or other internet content. I will not provide an equation sheet. Since it will be open notes, you should have all your notes from lecture and will not need my equation sheet.

There are a number of options for completing the exams and submitting the answers. I will list these in order of preference, depending on your available technology.

**Note that the cover page is a PDF Form. You can just click in the spaces next to name and date and type in your information. Check the box to indicate your agreement to the terms to the exam.**

- 1) Download the PDF file to a tablet or iPad and do the exam on your device. Use your stylus to write on the PDF file. Save it and upload it to the Submission folder on D2L. (Make sure the file saves correctly before sending it... close it down, and re-open it and make sure it's all there and saved correctly.)
- 2) Print out the PDF on printer paper and write your answers directly on the page using a pen or pencil. Scan the document using your printer/scanner or an app such as TurboScan, iPhone Notes, or Adobe Scan. Save it and upload it to the Submission folder on D2L.
- 3) If you do not have a tablet and do not have a printer (or one that works very efficiently) then simply write your answers on a separate piece of paper. Write neatly, and make sure you indicate which problem you are working on very clearly. When you are done, scan the document using your printer/scanner or an app such as TurboScan, iPhone Notes, or Adobe Scan. Save it and upload it to the Submission folder on D2L.
- 4) Save the file as ***"LastName 240 Exam0X.pdf"*** ("X" being the exam number, 1, 2, 3 or 4). If you can't combine the two files, then you can use ***"LastName 240 Exam0XA.pdf"***, and ***"LastName 240 Exam0XB.pdf"***, for the cover sheet and exam solutions **respectively**.

Office hours will be by request via Zoom or email.

<https://wcupa.zoom.us/j/845113288?pwd=cmx2enJoSEFtVIZlUmxtM0hIYU5YOT09>

**Meeting ID: 845 113 288**

**Schedule:** (See page on D2L)