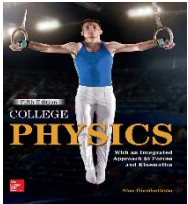


**THE UNIVERSITY OF TEXAS AT EL PASO
COLLEGE OF SCIENCE
DEPARTMENT OF PHYSICS**

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| Course #: | PHYS 1404 CRN 27361 | | | | | | | | | | | | |
| Course Title: | General Physics II | | | | | | | | | | | | |
| Credit Hrs: | 4.0 | | | | | | | | | | | | |
| Term: | Spring 2021 | | | | | | | | | | | | |
| Course Meetings & Location: | Tu & Th 9:00 – 10:20 AM Online live stream sessions through Blackboard Collaborate Ultra https://blackboardlearn.utep.edu/ultra/courses/_126860_1/cl/outline | | | | | | | | | | | | |
| Prerequisite Courses: | PHYS 1403 w/C or better | | | | | | | | | | | | |
| Course Fee: (if applicable) | - | | | | | | | | | | | | |
| Instructor: | Dr. Felicia S. Manciu | | | | | | | | | | | | |
| Office Location: | PSCI 221 B | | | | | | | | | | | | |
| Contact Info: | Phone # : (915) 747 8472 E-mail address: fsmanciu@utep.edu Fax #: (915) 747 5447 Emergency Contact: (915) 747 5715 | | | | | | | | | | | | |
| Office Hrs: | Tu & Th 1:00 – 2:00 PM Dr. Felicia S. Manciu’s office hours will be online at https://blackboardlearn.utep.edu/ultra/courses/_126860_1/cl/outline using live stream session or through Discussion Board forum | | | | | | | | | | | | |
| Textbook(s), Materials: | Main textbook: <i>College Physics</i> by Alan Giambattista (Fifth Edition).  | | | | | | | | | | | | |
| Additional Readings : (recommended, but not required) | VIDEO LECTURES: Please go to Khan Academy (it is free) https://www.khanacademy.org/science/physics/electric-charge-electric-force-and-voltage (Chapters 16, 17, 18) https://www.khanacademy.org/science/physics/magnetic-forces-and-magnetic-fields (Chapters 19, 20, 21) READINGS: The lecture notes will be available online on Blackboard Collaborate Ultra at https://blackboardlearn.utep.edu/ultra/courses/_126860_1/cl/outline under “ Lecture Notes ” section | | | | | | | | | | | | |
| Grading Policy: | Grades in this course will be based on your scores on two midterm exams, a final exam (comprehensive) laboratory, and homework assignments. <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>Midterm exams:</td> <td>40%</td> <td>(20% each)</td> </tr> <tr> <td>Final exam:</td> <td>30%</td> <td>(comprehensive)</td> </tr> <tr> <td>Homework:</td> <td></td> <td>20%</td> </tr> <tr> <td>Laboratory:</td> <td></td> <td>10%</td> </tr> </table> | Midterm exams: | 40% | (20% each) | Final exam: | 30% | (comprehensive) | Homework: | | 20% | Laboratory: | | 10% |
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| Homework: | | 20% | | | | | | | | | | | |
| Laboratory: | | 10% | | | | | | | | | | | |

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| <p>Course Objectives (Learning Outcomes):</p> | <p>The objective of PHYS 1404, which is the second part of a sequence of two algebra-based introductory physics courses, is to provide students with a rigorous description of physical phenomena and to improve students' problem-solving abilities.</p> <p>We will study the following topics: Electric Forces and Electric Fields, Electrical Energy and Capacitance, Current and Resistance, Direct-Current Circuits, Induced Voltage and Inductance, and Alternating Current.</p> |
| <p>Course Activities/Assignments:</p> | <p>Homework</p> <p>Several homework sets will be assigned. <u>Homework is a key component of this course</u>, as acquiring and improving your analytical skills critically depend on the number and variety of problems you attempt to solve. Due dates for homework will be posted online and no late homework will be accepted.</p> <p>It is essential that students become well versed in problem solving methods, which means developing skills to set up a problem, including diagrams and mathematical manipulation to achieve the final answer. A numerical score will be assigned for each homework set based on graded and counted problems. Make sure that you understand the solutions and write them up yourself.</p> <p><u>There is a strong correlation between homework scores and exam scores! The textbook is bundled together with the online e-Connect resource registration package for the homework.</u></p> <p><u>REQUIRED: EACH STUDENT NEEDS TO PURCHASE HIS/HER OWN REGISTRATION FOR THE HOMEWORK.</u></p> <p><u>Please register for the homework at https://connect.mheducation.com/class/f-manciu-spring-2021</u></p> <p>The online homework will be announced in advance in the lecture (approximately every week). Each will consist of few problems based on the course material.</p> <p>Exams</p> <p>Exams will consist of multiple-choice problems very similar to the worked example problems in the text and the assigned homework problems. Thus, the best way to prepare for the exams is to study the example problems and work out the assigned homework problems regularly. You should work as many additional problems from the text as you can: this is the best way to ensure your understanding of the material.</p> <p>The exams are scheduled to be offered either online (through Blackboard Collaborate Ultra and Respondus Lockdown Browser or through McGraw-Hill E-connect) or face-to-face (pending COVID-19 regional health conditions and availability of a large capacity room). The midterm exams will be during class time and the final exam at the time scheduled by UTEP.</p> |

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| <p>Course Activities/Assignments:</p> | <p>The first midterm exam (Chapters 16,17, and 18) will be scheduled during the second week of March (potentially on March 11) and the second midterm (Chapters 19,20,21) during the end of April, at the latest. The final exam (comprehensive) will be scheduled online – UTEP date TBA. Final exams must be given at the scheduled time; any/all exceptions must be approved by both the Department Chair and the Dean.</p> <p>Laboratory</p> <p>For more information about the laboratory section, which is a part of this course, please contact Karla Carmona (kcarmona@utep.edu)</p> |
| <p>Make-up Policy:</p> | <p>An extension of the due date for the homework as well as the make-up of missing exams will be granted only in extraordinary circumstances.</p> |
| <p>Attendance Policy:</p> | <p>Attendance is mandatory.</p> |
| <p>Technology Requirements:</p> | <p>The course content is delivered via internet through the Blackboard learning management system (LMS). Please ensure your UTEP e-mail account is working and that you have access to a stable Web browser. Mozilla Firefox and Google Chrome are the most supported browsers for Blackboard; other browsers may cause complications with the LMS. When having technical difficulties, update your browser, clear your cache, or try switching to another browser.</p> <p>You will need to have access to a computer/laptop, scanner, a webcam, and a microphone. You will need to download or update the following software: Microsoft Office, Adobe, Flashplayer, Windows Media Player, QuickTime, and Java. Check that your computer hardware and software are up-to-date and able to access all parts of the course.</p> <p>If you encounter technical difficulties beyond your scope of troubleshooting, please contact the Help Desk as they are trained specifically in assisting with technological needs of students.</p> |
| <p>Academic Integrity Policy:</p> | <p>Please see: http://academics.utep.edu/Default.aspx?tabid=23785</p> |
| <p>Etiquette:</p> | <p>Remember that all the class members and the instructor can read any postings. Respect and courtesy must be provided to classmates and to the instructor at all times. No harassment or inappropriate postings will be tolerated.</p> <p>Blackboard is not a public internet venue; all postings should be considered private and confidential. Whatever is posted on in these online spaces is intended for classmates and professor only.</p> |
| <p>Scholastic Integrity:</p> | <p>Academic dishonesty is prohibited and is considered a violation of the UTEP Handbook of Operating Procedures. It includes, but is not limited to, cheating, plagiarism, and collusion. Cheating may involve copying from or providing information to another student, possessing unauthorized materials during a test, or falsifying research data on laboratory reports. Plagiarism occurs when someone intentionally or knowingly represents the words or ideas of another as ones' own. Collusion involves collaborating with another person to commit any academically dishonest act. Any act of academic dishonesty attempted by a UTEP student is unacceptable and will not be tolerated.</p> |

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| | All suspected violations of academic integrity at The University of Texas at El Paso must be reported to the Office of Student Conduct and Conflict Resolution (OSCCR) for possible disciplinary action. To learn more HOOP: Student Conduct and Discipline . |
| Accommodation Policy: | The University is committed to providing reasonable accommodations and auxiliary services to students, staff, faculty, job applicants, applicants for admissions, and other beneficiaries of University programs, services and activities with documented disabilities in order to provide them with equal opportunities to participate in programs, services, and activities in compliance with sections 503 and 504 of the Rehabilitation Act of 1973, as amended, and the Americans with Disabilities Act (ADA) of 1990 and the Americans with Disabilities Act Amendments Act (ADAAA) of 2008. Reasonable accommodations will be made unless it is determined that doing so would cause undue hardship on the University. Students requesting an accommodation based on a disability must register with the UTEP Center for Accommodations and Support Services . |
| Disability Statement: | If you have a disability and need classroom accommodations, please contact the Center for Accommodations and Support Services (CASS) at 747-5148, or by email to cass@utep.edu , or visit their office located in UTEP Union East Building, Room 106. For additional information, please visit the CASS website at www.sa.utep.edu/cass . The student is responsible for presenting to the instructor any accommodation letters and instructions. |
| Military Statement: | If you are a military student with the potential of being called to military service and/or training during the course of the semester, you are encouraged to contact the instructor at the beginning of the semester. |
| Course Schedule: | CHAPTER 16 – <u>ELECTRIC FORCES AND FIELDS</u> CHAPTER 17 – <u>ELECTRIC POTENTIAL</u> CHAPTER 18 – <u>ELECTRIC CURRENT AND CIRCUITS</u> CHAPTER 19 – <u>MAGNETIC FORCES AND FIELDS</u> CHAPTER 20 – <u>ELECTROMAGNETIC INDUCTION</u> CHAPTER 21 – <u>ALTERNATING CURRENT</u> |
| Course drop date: | April 1st, 2021 |