

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

<b>Course #:</b>	PHYS 1404 CRN 21003												
<b>Course Title:</b>	General Physics II												
<b>Credit Hrs:</b>	4.0												
<b>Term:</b>	Spring 2018												
<b>Course Meetings &amp; Location:</b>	TR 9:00 – 10:20 AM, Liberal Arts room 107												
<b>Prerequisite Courses:</b>	PHYS 1403 w/C or better												
<b>Course Fee: (if applicable)</b>	-												
<b>Instructor:</b>	<b>Dr. Felicia S. Manciu</b>												
<b>Office Location:</b>	PSCI 221 B												
<b>Contact Info:</b>	Phone # : (915) 747 8472												
	E-mail address: fsmanciu@utep.edu												
	Fax #: (915) 747 5447												
	Emergency Contact: (915) 747 5715												
<b>Office Hrs:</b>	Tuesday, Thursday 11:00 am – 12:00 pm and 2:00 pm – 3:00 pm												
<b>Textbook(s), Materials:</b>	Main textbook: <i>College Physics</i> by Alan Giambattista, Betty McCarthy Richardson, and Robert C. Richardson (Fourth Edition).  The Laboratory Section is mandatory for this course (see table below).												
<b>Course Objectives (Learning Outcomes):</b>	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.  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, Alternating Current, and Selected Topics in Geometrical Optics. First midterm (Chapters 16,17, and 18) will be scheduled during the last week of March and the second midterm (Chapters 19,20,21) during the last week of April. The final exam (comprehensive) is scheduled by the school (please see registrar's webpage). Final exams must be given at the scheduled time; any/all exceptions must be approved by both the Department Chair and the Dean.												
<b>Grading Policy:</b>	Grades in this course will be based on your scores on two midterm exams, a final exam (comprehensive; but with emphasis on the last part of the course), 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>25%</td> <td>(comprehensive)</td> </tr> <tr> <td>Laboratory</td> <td colspan="2">15%</td> </tr> <tr> <td>Homework:</td> <td colspan="2">20%</td> </tr> </table>	Midterm exams:	40%	(20% each)	Final exam:	25%	(comprehensive)	Laboratory	15%		Homework:	20%	
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Laboratory	15%												
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<p><b>Course Activities/Assignments:</b></p>	<p><b>Homework</b></p> <p>Several homework sets will be assigned. Homework is a key component of this course, as acquiring and improving your analytical skills critically depend on the number and variety of problems you attempt to solve. Solving homework problems in groups is encouraged. Due dates for homework will be announced and no late homework will be accepted.</p> <p>It is essential that students become well versed in problem solving methods, which means developing the writing 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.</p>
<p><b>Course Activities/Assignments:</b></p>	<p>Feel free to form study groups with your classmates and seek help from any lecture instructor during his or her office hours as you attempt to solve the problems. Make sure that you understand the solutions and write them up yourself. <b><u>There is a strong correlation between homework scores and exam scores!</u></b></p> <p><b><u>The textbook is bundled together with the online e-Connect resource registration package.</u></b></p> <p><b><u>REGISTER FOR ONLINE HOMEWORK.</u></b></p> <p><a href="https://connect.mheducation.com/class/f-manciu-spring-2018">https://connect.mheducation.com/class/f-manciu-spring-2018</a></p> <p><b><u>EACH STUDENT WILL NEED HIS OWN REGISTRATION PACKAGE FOR THE HOMEWORK.</u></b></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><b>Exams</b></p> <p>Exams will consist of problems very similar to the worked example problems in the text and the assigned homework problems. Exams will be strictly closed-book. You should bring with you a pocket calculator to work out the answers to numerical problems: <b>make sure the battery is charged!</b></p> <p>No cell phones allowed in the exams!</p> <p>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><b>Make-up Policy:</b></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><b>Attendance Policy:</b></p>	<p>Attendance is mandatory.</p>
<p><b>Academic Integrity Policy:</b></p>	<p>Please see: <a href="http://academics.utep.edu/Default.aspx?tabid=23785">http://academics.utep.edu/Default.aspx?tabid=23785</a></p>

<b>Civility Statement:</b>	<ul style="list-style-type: none"> <li>• Cell phones and pagers should be turned off during class time.</li> <li>• When absences occur, it is your responsibility to obtain handouts and notes from your peers. When possible you will complete the activities you have missed.</li> <li>• Academic integrity is to be practiced at all times.</li> </ul>
<b>Disability Statement:</b>	<p>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 <a href="mailto:cass@utep.edu">cass@utep.edu</a>, or visit their office located in UTEP Union East Building, Room 106. For additional information, please visit the CASS website at <a href="http://www.sa.utep.edu/cass">www.sa.utep.edu/cass</a>. The student is responsible for presenting to the instructor any accommodation letters and instructions.</p>
<b>Military Statement:</b>	<p>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.</p>
<b>Course Schedule:</b>	<p><b>CHAPTER 16 – <u>ELECTRIC FORCES AND FIELDS</u></b></p> <p><b>CHAPTER 17 – <u>ELECTRIC POTENTIAL</u></b></p> <p><b>CHAPTER 18 – <u>ELECTRIC CURRENT AND CIRCUITS</u></b></p> <p><b>CHAPTER 19 – <u>MAGNETIC FORCES AND FIELDS</u></b></p> <p><b>CHAPTER 20 – <u>ELECTROMAGNETIC INDUCTION</u></b></p> <p><b>CHAPTER 21 – <u>ALTERNATING CURRENT</u></b></p> <p><b>CHAPTER – <u>SELECTED TOPICS IN GEOMETRICAL OPTICS</u></b></p>