Catalog Description: Electricity and magnetism, light, relativity, atomic and nuclear physics

Prerequisites: PHY 1010, 1080, 1510, or 1610

Corequisite for PHY 1020: PHY 1110 – General Physics Lab II.

Textbook: Serway/Vuille, College Physics, 11th edition, Hybrid – Cengage
Bundled with EWA and EWA Start Guide
ISBN: 9781337741569

You can purchase WebAssign only; regardless of your purchase option WebAssign comes with an eBook version of the text that includes end of chapter problems.

General Education Learning Outcomes: This course satisfies the university general education requirement in the knowledge applications integration area.

Course Goals and Objectives: Goals of this course include
- Learning the basic concepts of physics
- Using mathematics to analyze physical problems
- Understanding how the scientific method is used to obtain new knowledge
- Applying physics to real world applications

Supplemental Instruction: Supplemental Instruction will meet for an hour after each lecture, 9:20-10:20 in 195 Hannah Hall. Participation to the SI is not mandatory, but it is strongly encouraged.

Other Help
- The Tutoring Center offers free tutoring and also space to gather and study with peers.
- A series of videos providing a complete review of high school algebra and trigonometry, as well as introductory physics, can be found on the Tutoring Center’s website: www.oakland.edu/tutoring/instructional-videos/physics-videos
- Come to office hours!

Homework: The online program WebAssign will be utilized for entering and automatic grading of the homework. This requires the Access Card to be found inside the textbook.
Each chapter’s homework consists of four problems.
The homework for each chapter can be submitted a maximum of 5 times.

Accessing WebAssign: see attached sheet.

Due time: The assignments are due at 11:59 pm on the date specified on WebAssign.
Grace period: there is a 14-day grace period in WebAssign during which you may do the homework even if you do not have an Access Code yet.
Grades:

- **In-class quizzes.** To encourage you to read the textbook in advance, whenever we start a new chapter we will have an online, three-question, multiple-choice quiz through WebAssign, which must be completed before the start of class. Your quiz grade will be worth 10% of your semester grade.
- **Homework.** The homework will be all online, using the WebAssign website. The homework will be worth 10% of your semester grade.
- **Exams.** We will have four exams, each worth 20% of your semester grade. These exams are closed book. You can bring one page of notes (front and back, 8 ½ by 11 paper). You may use a calculator. A week before each exam, I will hand out a practice exam and we will review it in class.

Grading Scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Range</th>
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<tbody>
<tr>
<td>A</td>
<td>95-100</td>
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<tr>
<td>A-</td>
<td>90-94</td>
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<tr>
<td>B+</td>
<td>87-89</td>
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<tr>
<td>B</td>
<td>84-86</td>
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<tr>
<td>B-</td>
<td>80-83</td>
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<tr>
<td>C+</td>
<td>77-79</td>
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<td>C</td>
<td>74-76</td>
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<tr>
<td>C-</td>
<td>70-73</td>
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<tr>
<td>D+</td>
<td>65-69</td>
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<tr>
<td>D</td>
<td>60-64</td>
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<tr>
<td>F</td>
<td>&lt; 60</td>
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</table>

I reserve the right to make the grading scale more generous, but not less generous.

Class Schedule

<table>
<thead>
<tr>
<th>Jan 6</th>
<th>Introduction</th>
<th>Jan 8</th>
<th>Topic 15</th>
<th>Quiz 15</th>
<th>Jan 10</th>
<th>Topic 15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan 13</td>
<td>Topic 16</td>
<td>Quiz 16</td>
<td>Jan 15</td>
<td>Topic 16 HW 15</td>
<td>Jan 17</td>
<td>Topic 17</td>
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<tr>
<td>MLK Holiday</td>
<td>Jan 22</td>
<td>Topic 18</td>
<td>Quiz 18</td>
<td>Jan 24</td>
<td>Topic 18 HW 16</td>
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<tr>
<td>Jan 27</td>
<td>Topic 18</td>
<td>Quiz 19</td>
<td>Feb 5</td>
<td>Topic 19</td>
<td>Feb 7</td>
<td>Topic 20</td>
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<tr>
<td>Feb 3</td>
<td>Topic 19</td>
<td>Quiz 19</td>
<td>Feb 12</td>
<td>Topic 21</td>
<td>Quiz 21</td>
<td>Feb 14</td>
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<tr>
<td>Feb 10</td>
<td>Topic 20 HW 19</td>
<td>Feb 17</td>
<td>Topic 21</td>
<td>Quiz 21</td>
<td>Feb 19</td>
<td>Review HW 21</td>
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<tr>
<td>Winter Break</td>
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<tr>
<td>March 2</td>
<td>Topic 22</td>
<td>Quiz 22</td>
<td>March 4</td>
<td>Topic 22</td>
<td>March 6</td>
<td>Topic 23</td>
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<tr>
<td>March 9</td>
<td>Topic 23 HW 22</td>
<td>March 11</td>
<td>Topic 24</td>
<td>Quiz 24</td>
<td>March 13</td>
<td>Topic 24 HW 23</td>
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<tr>
<td>March 23</td>
<td>Topic 26</td>
<td>Quiz 26</td>
<td>March 25</td>
<td>Review HW 25</td>
<td>March 27</td>
<td>Exam 3 (22-26)</td>
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<td>March 30</td>
<td>Topic 27</td>
<td>Quiz 27</td>
<td>April 1</td>
<td>Topic 27</td>
<td>April 3</td>
<td>Topic 28</td>
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<td>April 6</td>
<td>Topic 28 HW 27</td>
<td>April 8</td>
<td>Topic 29</td>
<td>Quiz 29</td>
<td>April 10</td>
<td>Topic 29</td>
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<tr>
<td>April 13</td>
<td>Topic 29 HW 28</td>
<td>April 15</td>
<td>Topic 30</td>
<td>Quiz 30</td>
<td>April 17</td>
<td>Review HW 29</td>
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<tr>
<td>April 20</td>
<td>Final Exam (27-30), 8-11 am</td>
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No homework for:

- Topic 17 (Current and Resistance)
- Topic 26 (Special Relativity)
- Topic 30 (Nuclear Energy and Elementary Particles)
Add/Drops
I will follow the University’s add/drop policy.

Reasonable Accommodations
My goal is to make this course as accessible as possible. Students with disabilities who have questions about course accessibility are encouraged to contact me immediately. The Office of Disability and Support Services (DSS) is available to help; 103A North Foundation Hall, 248-370-3266, https://www.oakland.edu/dss

Policy on Academic Misconduct
I will enforce the University’s regulations that relate to academic misconduct. Any student suspected of cheating will be reported to the Dean of Students and, thereafter, to the Academic Conduct Committee for adjudication. Anyone found guilty of academic misconduct in this course may receive a course grade of F, in addition to any penalty assigned by the Academic Conduct Committee. Students found guilty of academic misconduct by the Academic Conduct Committee may face suspension or permanent dismissal. The full policy on academic misconduct can be found in the General Information section of the Undergraduate Catalog.

Excused Absence Policy
The University excused absence policy applies to participation as an athlete, manager or student trainer in NCAA intercollegiate competitions, or as a representative of OU at academic events and artistic performances approved by the Provost or designee. See: https://www.oakland.edu/provost/policies-and-procedures/

Student Preferred Name/Pronoun Policy
I will gladly honor your request to address you by any name or gender pronoun. For more information, see https://www.oakland.edu/uts/common-good-core-resources/name-services/
WebAssign: How to Get Started

Day One: Register
1. Go to https://webassign.net and click on LOGIN.
2. Click on ‘Enter Class Key’
3. Enter the Class Key: oakland 7292 1891
4. Enter your chosen Login name and the required information
5. Click on ‘Create my Account’
   A review screen will appear with your Username, Institution code & Password.
   Print and retain a copy of this information.
6. Once you Login, you need to enter the WebAssign Access Code.
   - If you purchased a new textbook, the Access Code card is inside the book.
   - If you purchased a used book, you may choose to purchase the Access Code online.
7. Once you have logged in, you will see the Homepage.
   - I suggest you click on Guide (upper right corner) and read the Student Guide.
   - For Technical Support call 800-354-9706 or go to https://www.webassign.com/support/student-support/

Notice: there is a 14-day grace period in Web Assign during which you may do the homework even if you do not have an Access Code.

You may want to watch the short Student Self-Enrollment video:
http://www.wadsworthmedia.com/tlc/EWA_StudentVideos/Self_Enrollment/EWA_Student_SelfEnrollment.html

To access the Homework:
1. Go to https://www.webassign.net/wa-auth/login (I suggest you Bookmark this page)
2. After you Login, click on ‘My Assignments’.
   Please notice:
   - You may save your work without grading by clicking on ‘Save Work’ at the end of the question.
     Next time you access the assignment, your work will still be available.
   - WebAssign will not automatically submit your answer if you only ‘Save’ your work.
     Make sure you ‘Submit’ it before the due date and time.
   - You may also choose to ‘Submit New Answers to Question xx’ or ‘Submit All New Answers’.

Remember that there is a maximum of 5 submissions for each problem.