Term: Fall 2020 (Harvesterm II)  
Course: PHYS-1407-41001  
Course Dates: 10/19/2020 - 12/10/2020  
Class Location: Online

<table>
<thead>
<tr>
<th>Instructor:</th>
<th>Professor Naila Syed, Dr. Uma Choppali</th>
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<tbody>
<tr>
<td>Phone:</td>
<td>972-860-7297</td>
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<tr>
<td>Email:</td>
<td><a href="mailto:NailaSyed@dcccd.edu">NailaSyed@dcccd.edu</a>,</td>
</tr>
<tr>
<td>Office &amp; Office Hours:</td>
<td>By appointment only</td>
</tr>
</tbody>
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| STEM Division: | C-Building, Room 202 | 972-860-7297 |

Course Drop Date: November 25, 2020

Disclaimer: The instructor reserves the right to amend this syllabus as necessary.

Institutional Policies: Eastfield College Institutional Policies
(www.eastfieldcollege.edu/syllabipolicies)

- **Course Title & Course Description**
  Elementary Physics II
  Conceptual level survey of topics in Physics intended for liberal arts and other non-science majors. Topics include mechanics, energy conservation, atomic nature of matter and thermodynamics. The history of scientific developments and their impact on daily life are discussed. Also included are laboratory experiments that emphasize a conceptual understanding of Physics. (3 Lec., 3 Lab.)
  Coordinating Board Academic Approval Number 4008015103

- **Course Learning Outcomes**
  - Measure objects with appropriate instruments.
  - Convert measurements from one set of units to another.
  - Draw and interpret graphs.
  - Define speed, velocity and acceleration and relate them to time and distance with simple equations.
  - Find resultant and equilibrant forces.
  - Define friction and identify its properties.
  - Define energy, power and momentum and use the terms appropriately.
  - Calculate torques and other rotational quantities.
  - Identify and use thermodynamic terms.
  - Appreciate the history of scientific developments and principles of physics.

- **TEXTBOOK & MATERIALS:**
CLASS and LAB PARTICIPATION:

You are expected to complete all lecture homework assignments, quizzes and tests, and labs. Lab participation is worth 15% of the grade.

HOMEWORK:

There will be homework every week. You will turn in the homework using MasteringPhysics, an online homework system. Each homework will usually be a combination of conceptual and quantitative problems relating to the material from the previous weeks in class. Over the course of the semester the homework will amount to 15% of the grade.

It is important to complete the homework to obtain a good understanding of the material covered (and to practice so you can do well on the exams). You are encouraged to work with others on the homework. However, you are discouraged from letting others do the work and then copying what they did, or you doing the work and letting others copy. The instructor has observed that for the most part successful students pay particular attention to the assigned homework and devote considerable effort to it. Feel free to visit the Instructor whenever you may need assistance with the homework.

• EXAMS: (tentative dates)

Midterm exams. -- There will be three midterm exams and a final. All exams will be counted. All examinations will be online through Mastering Physics.

The final exam -- The final exam will be comprehensive, emphasizing subject matter covered in the entire semester. Final exam is on December 9, online through Mastering Physics.

• GRADING:

<table>
<thead>
<tr>
<th>Course Component</th>
<th>% Value</th>
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<tbody>
<tr>
<td>Quizzes</td>
<td>10%</td>
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<tr>
<td>Labs</td>
<td>15%</td>
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<tr>
<td>Homework</td>
<td>15%</td>
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<tr>
<td>Midterm Exam I</td>
<td>15%</td>
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<tr>
<td>Midterm Exam II</td>
<td>15%</td>
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<tr>
<td>Midterm Exam III</td>
<td>15%</td>
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<tr>
<td>Final Exam</td>
<td>15%</td>
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<tr>
<td>Total</td>
<td>100%</td>
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• GRADING SCALE:

A: 90 – 100  B: 80 – 90  C: 70 – 80  D: 60 – 70

A grade of F will be assigned to anyone who has below a 60% OR to anyone caught cheating in this course.

Having trouble?
Your professor should be your first line of defense when you are having trouble. Other resources include:

• your classmates (form a study group!)
• the Tutoring Center