

Introduction to Engineering/Physics

PHY 108.002 Syllabus – Fall 2009

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Physics Homepage: www.physics.sfasu.edu
Course Home Page: <http://www.physics.sfasu.edu/downing/108HomePage.htm>
Office Hours/Class Hours: 11:00-11:50 MTWRF; 2:30-3:30 MWF, or by appointment/2:00-3:50 pm TR
Text: *College Physics* 10th ed (Schaum's Outline)

COURSE OBJECTIVES: The course objectives are to develop basic introductory level problem solving skills in prospective engineers and physicists and to have students become familiar with Newton's laws and associated conservation principles. A cooperative problem solving approach is taken where students develop time management skills and teaming skills. This course along with analytic geometry will prepare the student for the rigors of the PHY 240 series. The calendar below outlines the tentative course of study.

HOMEWORK: Your homework problems will be of professional quality and professionally presented. They will be complete in themselves to the extent that any competent person can determine the following: (a) the problem you are solving, (b) your method of solution, and (c) your answer. To assure these things you must adhere to the following rules.

- ✓ Use 8 ½ x 11 in. *Engineer's Computation Pad*.
- ✓ Write in pencil on one side of the page only.
- ✓ Each problem must be started on a new page. Staple homework in the upper left corner and leave flat (not folded) before submitting for grading.
- ✓ Include the following when working a problem: problem number and statement (word for word), sketch, definition of variables used in the solution, units, vector arrows, numbering of equations when needed for clarity, organized steps in the solution, and identification of the answers with boxes. Required graphs should be attached to the back of the problem.

Several problems will be selected for grading from each set. The homework grade will count as 100 points toward your final grade.

PRESENTATIONS: Presentations, attendance, and performance in class will count as 50 points toward the final grade.

PORTFOLIO: A portfolio of all the problems presented in class will be required. Each section of your portfolio will be turned in on the day of the exam which will cover that section. Your problems must be presented in standard format on engineering paper. Your portfolio will count 50 points toward the final grade.

EXAMS: There will be six timed exams this semester. Each exam will consist of three or four problems similar to those worked for homework and will be worth a maximum of 100 points toward the final grade. Students will have one week after the exam is returned to discuss any possible error in the grading.

FINAL GRADE: The maximum total points possible will be 800 and a final grade will be assigned according to the following:

720-800 A 640-719 B 560-639 C 480-559 D 000-479 F

Attendance Policy:

Absences from class must be made up through extra homework assigned from the PHY 241 text. The first absence incurs one extra homework problem. Any further absences will incur three extra homework problems for each absence occurrence. Each of these extra homework problems must be submitted until each is completely correct. Failure to complete this extra homework will result in a grade of WH until the work is totally completed. (WH's turn to F's if not completed within one year.) Every four tardies (five minutes or more late) to class will count as one class absence.

Academic Integrity (A-9.I)

Academic integrity is a responsibility of all university faculty and students. Faculty members promote academic integrity in multiple ways including instruction on the components of academic honesty, as well as abiding by university policy on penalties for cheating and plagiarism.

Definition of Academic Dishonesty

Academic dishonesty includes both cheating and plagiarism. Cheating includes but is not limited to (1) using or attempting to use unauthorized materials to aid in achieving a better grade on a component of a class; (2) the falsification or invention of any information, including citations, on an assigned exercise; and/or (3) helping or attempting to help another in an act of cheating or plagiarism. Plagiarism is presenting the words or ideas of another person as if they were your own. Examples of plagiarism are (1) submitting an assignment as if it were one's own work when, in fact, it is at least partly the work of another; (2) submitting a work that has been purchased or otherwise obtained from an Internet source or another source; and (3) incorporating the words or ideas of an author into one's paper without giving the author due credit.

Please read the complete policy at http://www.sfasu.edu/policies/academic_integrity.asp

Withheld Grades Semester Grades Policy (A-54)

Ordinarily, at the discretion of the instructor of record and with the approval of the academic chair/director, a grade of WH will be assigned only if the student cannot complete the course work because of unavoidable circumstances. Students must complete the work within one calendar year from the end of the semester in which they receive a WH, or the grade automatically becomes an F. If students register for the same course in future terms the WH will automatically become an F and will be counted as a repeated course for the purpose of computing the grade point average.

The circumstances precipitating the request must have occurred after the last day in which a student could withdraw from a course. Students requesting a WH must be passing the course with a minimum projected grade of C.

Students with Disabilities

To obtain disability related accommodations, alternate formats and/or auxiliary aids, students with disabilities must contact the Office of Disability Services (ODS), Human Services Building, and Room 325, 468-3004 / 468-1004 (TDD) as early as possible in the semester. Once verified, ODS will notify the course instructor and outline the accommodation and/or auxiliary aids to be provided. Failure to request services in a timely manner may delay your accommodations. For additional information, go to <http://www.sfasu.edu/disabilityservices/>.

Physics 108.002 Fall 2009 Calendar

Monday	Tuesday	Wednesday	Thursday	Friday
<u>Aug. 31</u>	<u>Sep. 1</u> <i>Intro & Ch. 1</i>	<u>Sep. 2</u>	<u>Sep. 3</u> <i>Add Deadline</i> <i>Ch. 1</i>	<u>Sep. 4</u>
<u>Sep. 7</u> <i>Labor Day</i>	<u>Sep. 8</u> <i>Ch. 1</i>	<u>Sep. 9</u>	<u>Sep. 10</u> <i>Ch. 1</i>	<u>Sep. 11</u>
<u>Sep. 14</u>	<u>Sep. 15</u> <i>Test 1 & Ch. 2</i>	<u>Sep. 16</u> <i>12th Day</i>	<u>Sep. 17</u> <i>Ch. 2</i>	<u>Sep. 18</u>
<u>Sep. 21</u>	<u>Sep. 22</u> <i>Ch. 2</i>	<u>Sep. 23</u>	<u>Sep. 24</u> <i>Ch. 2</i>	<u>Sep. 25</u>
<u>Sep. 28</u> <i>20th Day</i>	<u>Sep. 29</u> <i>Ch. 2</i>	<u>Sep. 30</u>	<u>Oct. 1</u> <i>Test 2 & Ch. 3</i>	<u>Oct. 2</u>
<u>Oct. 5</u>	<u>Oct. 6</u> <i>Ch. 3</i>	<u>Oct. 7</u>	<u>Oct. 8</u> <i>Ch. 3</i>	<u>Oct. 9</u>
<u>Oct. 12</u>	<u>Oct. 13</u> <i>Ch. 3</i>	<u>Oct. 14</u>	<u>Oct. 15</u> <i>Test 3 & Ch. 4</i>	<u>Oct. 16</u>
<u>Oct. 19</u>	<u>Oct. 20</u> <i>Ch. 4</i>	<u>Oct. 21</u> <i>Mid Term</i>	<u>Oct. 22</u> <i>Ch. 4</i>	<u>Oct. 23</u>
<u>Oct. 26</u> <i>Degree Deadline</i>	<u>Oct. 27</u> <i>Ch. 4</i>	<u>Oct. 28</u> <i>WP/WF Deadline</i>	<u>Oct. 29</u> <i>Ch. 4</i>	<u>Oct. 30</u>
<u>Nov. 2</u>	<u>Nov. 3</u> <i>Test 4 & Ch. 6</i>	<u>Nov. 4</u>	<u>Nov. 5</u> <i>Ch. 6</i>	<u>Nov. 6</u>
<u>Nov. 9</u>	<u>Nov. 10</u> <i>Ch. 6</i>	<u>Nov. 11</u>	<u>Nov. 12</u> <i>Ch. 6</i>	<u>Nov. 13</u>
<u>Nov. 16</u>	<u>Nov. 17</u> <i>Ch. 8</i>	<u>Nov. 18</u>	<u>Nov. 19</u> <i>Test 5 & Ch. 8</i>	<u>Nov. 20</u>
<u>Nov. 23</u>	<u>Nov. 24</u> <i>Ch. 8</i>	<u>Nov. 25</u> <i>Thanksgiving</i>	<u>Nov. 26</u> <i>Thanksgiving</i>	<u>Nov. 27</u> <i>Thanksgiving</i>
<u>Nov. 30</u> <i>Withdraw Deadline</i>	<u>Dec. 1</u> <i>Ch. 9</i>	<u>Dec. 2</u>	<u>Dec. 3</u> <i>Ch. 9</i>	<u>Dec. 4</u>
<u>Dec. 7</u>	<u>Dec. 8</u> <i>Ch. 10</i>	<u>Dec. 9</u>	<u>Dec. 10</u> <i>Ch. 10</i>	<u>Dec. 11</u>
<u>Dec. 14</u>	<u>Dec. 15</u> <i>Test 6 1-3 pm</i>	<u>Dec. 16</u>	<u>Dec. 17</u>	<u>Dec. 18</u>