San José State University  
Physics Department  
Physics 110b, Spring Semester, 2018

[Basic] Course and Contact Information

Instructor: Patrick Hamill
Office Location: Science 240
Telephone: (408) 924-5241
Email: Patrick.Hamill@sjsu.edu
Office Hours: MWF 10:00-11:00, MW 1:00-4:00
Class Days/Time: MWF 9:00-9:50
Classroom: Sci 242
Prerequisites: Phys 110a with grade of C- or better.

Course Description

Magnetostatics, Biot-Savart Law, Ampere’s law, Vector Potential, Magnetization,  
Electrodynamics, Electromagnetic waves, Radiation

Course Learning Outcomes (CLO)

Upon successful completion of this course, students will be able to:
CLO 1 Solve difficult problems involving electrical and magnetic systems.
CLO 2 Understand Maxwell’s equations. Understand electromagnetic radiation.

Required Texts/Readings

Textbook
An Introduction to Electrodynamics 4th Ed by David Griffiths.

Course Requirements and Assignments

- The final examination will be held Tuesday, May 22 from 7:15 to 9:00.
- The three midterm exams will be held in September, October, November on days 
  that are convenient to most students.
- Homework will be due at the beginning of every class period. Assignments to be 
  given in class.
• Quizzes will be held every Friday during the first 10 minutes of class.

Grading Policy
To encourage you to do homework, you must turn in at least 75% of the problems with a passing grade to get better than a C- for the course. One or two late homework assignments may be accepted. Homework is due at the beginning of the class period.

The grading scheme is

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Weekly quizzes</td>
<td>10%</td>
</tr>
<tr>
<td>Homework</td>
<td>15%</td>
</tr>
<tr>
<td>3 Midterms @ 20%</td>
<td>60%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>15%</td>
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The letter grades will be assigned according to the usual algorithm

A = 90 – 100
B = 80 – 90
C = 70 – 80 etc.

Classroom Protocol
No laptops, ipods, cellphones, etc. please.

University Policies
Per University Policy S16-9, university-wide policy information relevant to all courses, such as academic integrity, accommodations, etc. will be available on Office of Graduate and Undergraduate Programs’ Syllabus Information web page at http://www.sjsu.edu/gup/syllabusinfo/"