

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

Weekly quizzes	10%
Homework	15%
3 Midterms @ 20%	60%
Final Exam	15%

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](http://www.sjsu.edu/gup/syllabusinfo/) at <http://www.sjsu.edu/gup/syllabusinfo/>