

San José State University
Physics Department
Physics 105b, Spring Semester, 2018

[Basic] Course and Contact Information

Instructor:	Patrick Hamill
Office Location:	Science 240
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Email:	Patrick.Hamill@sjsu.edu
Office Hours:	MWF 11:00-11:00 AM and MW 1:00-4:00 PM
Class Days/Time:	MWF 11:00-11:50
Classroom:	Sci 242
Prerequisites:	Phys 105a with grade of C- or better.

Course Description

Conservation laws and Symmetries, Gravity, Keplerian motion, Accelerated Reference Frames, Rotational Kinematics and Dynamics, Waves, Small Oscillations.

Course Learning Outcomes (CLO)

Upon successful completion of this course, students will be able to:

CLO 1 *Solve difficult problems in classical mechanics*

CLO 2 *Understand theories of gravitation. Understand Coriolis forces. Know how to set up and solve problems involving oscillatory motion. Know how to describe and analyze rotational motion.*

Required Texts/Readings

Textbook

Intermediate Mechanics by Patrick Hamill. Will be made available online.

Course Requirements and Assignments

- *The final examination will be held on Monday May 21 from 9:45 to 12:00 am.*
- *The three midterm exams will be held in February, March and April 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/>