

Department of Mechanical Engineering
University of California at Berkeley
ME 104 Engineering Mechanics II
Spring Semester 2017

Instructor: Fai Ma
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Consultation Hours: MW 12.30-2 pm

Class Location and Website

MWF 3-4 pm, 2040 Valley Life Sciences; course website at <http://bcourses.berkeley.edu>

Course Prerequisite

MEC 85 Introduction to Solid Mechanics

Textbook

J. L. Meriam, L. G. Kraige and J. N. Bolton, *Engineering Mechanics: Dynamics*, 8th ed., Wiley, Hoboken, New Jersey, 2015.

Supplementary Reference

R. C. Hibbeler, *Engineering Mechanics: Dynamics*, 14th ed., Pearson, Hoboken, New Jersey, 2016.

Course Contents

Newtonian dynamics of particles and rigid bodies in one-dimensional and planar motions. This corresponds to Chapters 1-6 and 8 of textbook, with occasional omissions.

Class Rules

Homework problems will be assigned each week and are due by 4 pm on Wednesday of the following week. Late homework will not be graded. Solutions to homework problems will be posted on the course website. Two Midterm Examinations and a Final Examination are planned. Examinations must be taken as scheduled. Approximate contributions to the final grade are as follows:

Homework	10%
First Midterm on Wednesday, 3/1/2017, 3-4 pm	15%
Second Midterm on Wednesday, 4/5/2017, 3-4 pm	15%
Final Examination on Wednesday, 5/10/2017, 7-10 pm	60%

Course Objectives

To give a compact and consistent account of the principles of Newtonian dynamics. Applications will be mentioned whenever feasible.