Department of Mechanical Engineering
University of California at Berkeley
ME 104 Engineering Mechanics II
Fall Semester 2020

Course will be offered online until further notice
Meeting ID: https://berkeley.zoom.us/j/7314972382

Instructor: Fai Ma
Office: 6127 Etcheverry Hall
E-mail: fma@berkeley.edu
Consultation Hours: MW 2-3.30 pm

Class Location and Website
MWF 4-5 pm, North Gate 105 (by Zoom); 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*, 9*th* ed., Wiley, Hoboken, New Jersey, 2018. Single-term access to e-book on WileyPLUS is currently available for $69.

Supplementary Reference
R. C. Hibbeler, *Engineering Mechanics: Dynamics*, 14*th* 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 11.59 pm on Friday of the following week (except the last assignment). Solutions to homework problems are provided by WileyPLUS. 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 Monday, 10/12/2020, 4-5 pm	20%
Second Midterm on Monday, 11/9/2020, 4-5 pm	25%
Final Examination on Thursday, 12/17/2020, 8-11 am	45%

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