

ME 120 – Class Schedule Spring 2019

The following schedule is subject to change throughout the semester with updates announced in class. Due dates posted on other materials supersede those here.

Lecture #	Date	Day	Chapter/Topic	Assignment
1	Jan 23	Wed	1-4: Intro / SoM Review	
2	Jan 28	Mon	5: Static Failure	
3	Jan 30	Wed	5: Static Failure	Quiz 1
4	Feb 4	Mon	6: Fatigue Failure	REP: Product Selection
5	Feb 6	Wed	6: Fatigue Failure	Quiz 2
6	Feb 11	Mon	7: Transmission Shafts	REP: Preliminary Analysis Report
7	Feb 13	Wed	7: Shaft Components/Review	Quiz 3
	Feb 18	Mon	<i>President's Day</i>	
8	Feb 20	Wed		Exam 1
9	Feb 25	Mon	8: Fasteners	
10	Feb 27	Wed	8: Power Screws	Quiz 4
11	Mar 4	Mon	10: Springs	
12	Mar 6	Wed	10: Springs	Quiz 5
13	Mar 11	Mon	11: Rolling Element Bearings	
14	Mar 13	Wed	11: Rolling Element Bearings	Quiz 6
15	Mar 18	Mon	12: Journal Bearings	REP: Critical Analysis Report
16	Mar 20	Wed	12: Journal Bearings	Quiz 7
	Mar 25	Mon	<i>Spring Break</i>	
	Mar 27	Wed	<i>Spring Break</i>	
17	Apr 1	Mon	<i>Review</i>	
18	Apr 3	Wed		Exam 2
19	Apr 8	Mon	13: Gears General	
20	Apr 10	Wed	13: Gears General	Quiz 8
21	Apr 15	Mon	14: Spur/Helical Gears	
22	Apr 17	Wed	15: Bevel/Worm Gears	Quiz 9
23	Apr 22	Mon	16: Clutches/Brakes	
24	Apr 24	Wed	16: Flywheels	Quiz 10
25	Apr 29	Mon	17: Flexible Elements	REP: Final Analysis Report
26	May 1	Wed	17: Flexible Elements	Quiz 11
27	May 6	Mon	<i>Review</i>	
28	May 8	Wed		Exam 3

Textbook: *Shigley's Mechanical Engineering Design, Tenth Edition* by Budynas and Nisbett. (Earlier editions may be usable, though some equation numbers, sections, etc. may have changed. I recommend *against* any edition that presents only one set of units, since we will use both and some tables and equations are unit-specific.)

Assessment

Grading Weights:

- Quizzes: 10%
- Three mid-term exams:
 - Exam 1: 24%
 - Exam 2: 24%
 - Exam 3: 24%
- Reverse engineering project: 18%

There is no comprehensive final exam. The third exam is taken during the last week of class.

Homework will NOT be collected or graded. Assignments will be posted at the start of each week and solutions posted the following weekend.

There is no extra credit in ME 120. There are no dropped exams, quizzes, assignments, etc.

Missing Assignment / Exceptions / Late Assignments / re-grading / etc.

- Exceptions only for *prior* arrangement or *documented* medical emergency. These must be confirmed via email. The exam dates are fixed, so check ahead of time and make arrangements now if you will be unable to take an exam on the dates shown.
- Quizzes will start *right at the beginning* of class. If you arrive to class late, the maximum score will be half credit.
- Unexcused missed assignments, quizzes, and exams are graded zero.
- Grading mistakes can happen - *remedy them right away!* If an assignment, quiz, or exam grade is misgraded or the grade is posted incorrectly to CatCourses (or not posted when it has been returned), please bring the item in question to the instructor's attention after class or during office hours *and* confirm via email *within one week* of the grade posting or item's return. DO NOT wait until near the end of term to bring such issues up. Note that any "blank" grades on CatCourses for graded work represent zeroes that haven't been posted yet, unless an exception is on file.

Office Hours:

Professor Martini (amartini@ucmerced.edu): Office Hours on Monday and Wednesday 10:15–11:30, SE2 room 272 or by appointment

TA: Nicholas Walters (nwalters@ucmerced.edu): Office Hours on Tuesday and Thursday 12:30–1:30, SE2 lobby or by appointment