

ME 129 Tribology – Fall 2021

Lecture:

Monday and Wednesday, 9:00-10:15am

Office Hours:

Professor Martini (amartini@ucmerced.edu): Office Hours on Monday and Wednesday 10:15–11:15

TA: Samuel Leventini (sleventini@ucmerced.edu): Office Hours on Tuesday and Thursday 3-5 pm
(subject to change per student preferences)

Assessment

Grading Weights:

- Quizzes: 25%
 - Quizzes will be given at the end of each lecture
- Exams: 45%
 - Two exams will be given, each worth 22.5%
 - There is no comprehensive final exam. The second exam is taken the last day of class
- Homework: 30%
 - Homework will be assigned weekly and due Monday before class starts via CatCourses
 - Homework submitted within 24 hours of the due date/time will be 50% off
 - Submissions after homework solutions have been posted will not be accepted

Textbook: No textbook is required. Custom material will be posted on CatCourses. If you want a book on tribology for this class and beyond: *Engineering Tribology* by G. Stachowiak and A. Batchelor.

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

- Exceptions only for *prior* arrangement or *documented* emergency
- Unexcused missed assignments, quizzes and exams are graded zero
- Any requests for regrading of assignments must be made within one week of the due date

Student Accessibility Services:

University of California, Merced is committed to creating learning environments that are accessible to all. If you anticipate or experience physical or academic barriers based on a disability, please feel welcome to contact me privately so we can discuss options. In addition, please contact Student Accessibility Services (SAS) at (209) 228-6996 or disabilityservices@ucmerced.edu as soon as possible to explore reasonable accommodations. All accommodations must have prior approval from Student Accessibility Services on the basis of appropriate documentation.

Draft Schedule:

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

Date	Day	Topic
Aug 25	Wed	Intro to Course and Tribology
Aug 30	Mon	Basic Concepts of Tribology
Sept 1	Wed	Lubricants
Sept 6	Mon	<i>Labor Day</i>
Sept 8	Wed	Lubricants
Sept 13	Mon	Guest Lecture – Jack Zakarian
Sept 15	Wed	Lubricant Properties
Sept 20	Mon	Lubricant Properties
Sept 22	Wed	Lubricant Properties
Sept 27	Mon	Solids, Contact & Surfaces
Sept 29	Wed	<i>No Class</i>
Oct 4	Mon	Solids, Contact & Surfaces
Oct 6	Wed	Solids, Contact & Surfaces
Oct 11	Mon	Guest Lecture – Steve Shaffer
Oct 13	Wed	Exam Review
Oct 18	Mon	Exam 1
Oct 20	Wed	Lubrication
Oct 27	Mon	Lubrication
Oct 28	Wed	Lubrication
Nov 1	Mon	Friction
Nov 3	Wed	Friction
Nov 8	Mon	Guest Lecture – Duval Johnson
Nov 10	Wed	<i>Veteran's Day</i>
Nov 15	Mon	Friction
Nov 17	Wed	Wear
Nov 22	Mon	<i>No Class</i>
Nov 24	Wed	<i>Thanksgiving</i>
Nov 29	Mon	Wear
Dec 1	Wed	Wear
Dec 6	Mon	Exam Review
Dec 8	Wed	Exam 2