San José State University
Mechanical Engineering Department
ME 113: Thermodynamics – Section 3, Fall 2021

Course and Contact Information

Instructor:	Prof. Abdie Tabrizi
Office Location:	Engr 348 & Online
Telephone:	408-924-3854 (please use the email given below)
Email:	Abdie.Tabrizi@evc.edu
Office Hours:	Tuesday/Thursday 8:10 – 8:40 AM (Also by appointment)
Class Days/Time:	Tuesdays, 8:40-10:20 AM (synchronous Zoom) Thursdays, 8:40-10:20 AM (ENGR 339)
Classroom:	ENGR 339 Thursdays (Tuesdays via synchronous Zoom)
Prerequisites:	Phys 52, and Math 32, with a C- or better in each
Course Website:	To access lecture material, homework/exams, click on the McGraw Hill Connect link from the canvas website.
Course Format	Weekly, TTR (Thursdays on campus and Tuesdays via Zoom)

Canvas and Connect

All lectures will be delivered through in-person classroom meetings and Canvas via Zoom sessions using written notes, discussion, PowerPoint, and the assigned textbook material. The presentations in electronic format will be posted to Canvas regularly, along with the syllabus, announcements, and other useful ,

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Connect. You are required to purchase acc
other instructional material. You will recei
textbook. In order to complete homework

need to access two different websites. Of course, you still need to purchase access to the Publisher materia through the Connect link within Canvas.

Course Description

This class covers properties of simple compressible substances, ideal gas and other equations of state, and the first and second laws of thermodynamics. Power cycles, refrigeration cycles, gas mixtures, and gas-vapor mixtures are also included.

Course Learning Outcomes (CLO)

Upon completion of this course, the student should be able to

1. Discuss 7.5 0.02 Tw [(ga)22 Tw [(thl e)4

- The final answer indicated clearly

McGraw-Hill Connect Assignments

The Connect system gives all homework problems an "all-or-nothing" score based on your answer (within 5% of the correct answer). However, there are cases in which a small error in an otherwise correct solution prevents you from getting the right answer, and Connect would assign you a 0, which doesn't seem fair. If you cannot get Connect to accept your answer and you have sought help from me before 5 PM the day the assignment is due, you may upload a legible image of your solution to the problem and contact me. I will review your solution and assign appropriate credit.

Grading Policy

		A	93.0-100	A-	90.0-92.9
B+	87.0-89.9	B	84.0-86.9	B-	80.0-83.9
C+	77.0-79.9	C	74.0-76.9	C-	70.0-73.9
		D	60.0-69.9		

Homework	10%
LearnSmart Assignments	5%
Essay	5% (or 100%*)
Discussion Topics	5%
Quizzes (4)	15%
Midterms (2)	30%
Final Exam	30%

*As discussed, you must pass the essay with a grade of 70% or higher in order to pass this course. The inability to do so will result in a failing grade in the class.

Classroom Protocol

Please place your cell phones on silent and refrain from using them during class. If you absolutely must take an emergency phone call, please leave the room quietly to do so. Exams and quizzes will be given at the beginning of class, so please be punctual. If the class meets in person, all cell phones must be put on the instructor's table during each exam and quiz. Only one short restroom break is allowed during the exam. No restroom break is allowed during the quizzes. You are not allowed to take your cell phone with you on restroom breaks

Any student that submits work that was not done entirely by him/her will be given a grade of "F" in the course and further disciplinary actions will be taken. There may also b alre pue beion-2 (i3 (di)27(o w)2 (i,0.004 [up

ME 113: Thermodynamics Section 3, Fall 2021, Tentative Course Schedule

Date	Topics, Readings, Assignments, Deadlines	Chapter	Assignments Due
Aug-19	Basic Concepts	1	HW_Ch1, LS1, IC1
Aug-24	Pressure, Forms of Energy, 1st Law of Thermodynamics	2.1-2.7	HW_Ch2, LS2, IC2
Aug-26	Ozone Depletion, The Greenhouse Effect, Phase Changes, Property Diagrams	2.8, 11.6, 3.1-3.4	
Aug-31	Property Tables	3.5	HW_Ch3, LS3, IC3
Sep-2	Equations of State, Boundary Work	3.6-4.1	
Sep-7	Closed Systems, Specific Heat	4.2-4.4	HW_Ch4, LS4, IC4
Sep-9			