Catalog Description:

Prerequisites: PHYS 204A.

Properties of substances, ideal gas equation of state, heat and work, first and second laws of thermodynamics, steady-state analysis of closed and open systems, entropy, gas and vapor power cycles, introduction to renewable energy sources. 3 hours discussion.

Office: OCNL 418, 530-898-6353
Office Hours: Please check the office door for my office hours


Topics from the following chapters will be covered.

Chapters:

1. Introduction and Basic Concepts
2. Energy Transfer
3. Properties of Pure Substances
4. Energy Analysis of Closed Systems
5. Mass and Energy Analysis of Control Systems
6. Second Law of Thermodynamics
7. Entropy
8. Exergy
9. Gas Power Cycles
10. Vapor and Combined Cycles

Grade Distribution

HW 10%
Exam 1 25%
Exam 2 25%
Exam 3 40%
Note:

1. Late work will not be accepted.
2. Home work will be graded and returned to you in time to study for the exams. However, students do not pick up their homework sometimes. That starts piling up in my office. The week prior to the finals week is the last week to pick up ALL your graded home work. Thereafter it will be shredded.
3. Once exams are graded and their solutions discussed in class, they must be returned to the instructor. You may bring any grading errors to the instructor and your grade will be rectified. No one will be allowed to keep their exams. Once the following academic semester (summer session is not an academic semester) has started, you have 31 days from the start of that semester to get questions about your overall grade as well as questions about the grade on the final exam clarified from the previous semester. All exams will be shredded after that.

Plagiarism: Please read the content on Academic Integrity at the following link: http://www.csuchico.edu/pres/em/2004/04-036.shtml

All must abide by the CSUC Academic Integrity guidelines. Anyone found violating it can be reported to the Office of Student Judicial Affairs (SJA) to impose their penalties.

Americans with Disabilities Act: If you need course adaptations or accommodations because of a disability or chronic illness, or if you need to make special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible, or see me during office hours. Please also contact Accessibility Resource Center (ARC) as they are the designated department responsible for approving and coordinating reasonable accommodations and services for students with disabilities. ARC will help you understand your rights and responsibilities under the Americans with Disabilities Act and provide you further assistance with requesting and arranging accommodations. Accessibility Resource Center 530-898-5959 located in Student Services Center 170, arcdept@csuchico.edu.