

# COLLEGE OF CHEMISTRY COURSE GUIDE (../INDEX.HTML)

MAJORS (../MAJOR.HTML)

LIST OF COURSES (COURSES.HTML)

RESOURCES (../RESOURCES/RESOURCE.HTML)

STUDENT LIFE (../STUDENTLIFE/ORGS.HTML)

## **MECHE 146 - ENERGY CONVERSION PRINCIPLES (3 UNITS)**

(Taken from the UC Berkeley Course Guide (<http://guide.berkeley.edu>))

### **COURSE OVERVIEW**

#### **SUMMARY**

This course covers the fundamental principles of energy conversion processes, followed by development of theoretical and computational tools that can be used to analyze energy conversion processes. The course also introduces the use of modern computational methods to model energy conversion performance characteristics of devices and systems. Performance features, sources of inefficiencies, and optimal design strategies are explored for a variety of applications, which may include conventional combustion based and Rankine power systems, energy systems for space applications, solar, wind, wave, thermoelectric, and geothermal energy systems.

#### **PREREQUISITES**

40, 106, and 109 (106 and 109 may be taken concurrently)

### **WORKLOAD**

#### **TIME COMMITMENT**

3-3 hours of lecture and 0-1 hours of discussion per week.



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(<https://www.fsu.edu/college/online/graduate/curriculum/graduate-student-peer-advising>)