

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

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## **NUCE 161 - NUCLEAR POWER ENGINEERING (4 UNITS)**

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

### **COURSE OVERVIEW**

#### **SUMMARY**

Energy conversion in nuclear power systems; design of fission reactors; thermal and structural analysis of reactor core and plant components; thermal-hydraulic analysis of accidents in nuclear power plants; safety evaluation and engineered safety systems.

#### **PREREQUISITES**

Course(s) in fluid mechanics and heat transfer; junior-level course in thermodynamics

Fall only

### **WORKLOAD**

#### **TIME COMMITMENT**

3 hours of lecture and 1 hour of discussion per week.

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

## COLLEGE OF CHEMISTRY PEER SERVICES

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