Instructor: Prof. Anand Asthagiri
233 Spalding, x8130
anand@cheme.caltech.edu

TAs: Havala Pye
havala@caltech.edu, x4130
OH: Monday, 7-8:30 pm (106 Spalding)

Shawn Yu
shawn@its.caltech.edu, MSC 924
OH: Wednesday, 7-8:30 pm (106 Spalding)

Meeting schedule: 106 Spalding: Tu 9-11 am and Th 9-10 am

Required textbooks:
Koretsky – Engineering and Chemical Thermodynamics
Statistical thermodynamics – portions of Statistical Mechanics by McQuarrie will be handed out.

Grading: Problem sets (20%) – weekly office hours highly recommended.
Mid-term (40%)
Final exam (40%)

Exams will be closed book.

Problem Sets: ~9 sets. Due at the beginning of class on Thursday. Solution Key will be available on the web Friday morning. Graded Sets will be returned within a week.

Content:
Course (28 ½ h) will cover three main areas:

Classical Thermodynamics (19 h)
• Multicomponent phase equilibria (14 h)
• Chemical equilibria (5 h)

Statistical thermodynamics (9 h)

Lectures considerably complement textbooks – attendance strongly advised.