

# PHYSICAL CHEMISTRY

Chemistry 520

Winter Quarter 2012

Lecture: MWF 12:30 PM Room 2019 McPherson

Recitation: M 1:30 PM Room 1008 McPherson

Recitation: T 1:30 PM Room 2186 Smith

**Instructor:** Philip Grandinetti

**Phone:** (614) 292-6818

**Office Hours:** Tuesdays and Thursdays at 1:30-2:30 PM

**Web Page:** [www.grandinetti.org/Teaching/Chem520](http://www.grandinetti.org/Teaching/Chem520)

**Office:** 0044B McPherson Lab

**Contact:** [www.grandinetti.org/Contact](http://www.grandinetti.org/Contact)

**Teaching Assistant:** Kevin Sanders

**Phone:** 292-8064

**Office Hours:** Thursdays 2:30-4:30 PM in Smith 5097

**Office:** 0048 McPherson Lab.

**E-mail:** [sanders.384@osu.edu](mailto:sanders.384@osu.edu)

**Required Text:** "Physical Chemistry for the Chemical and Biological Sciences," Third Edition, R. Chang

## Syllabus

Lecture Topic(s)	Chapter(s)
Thermodynamic Definitions	4
First Law of Thermodynamics - Heat & Work	4
Heat Capacity, Enthalpy	4
Gas Laws	2
Kinetic Theory of Gases	3
Second and Third Law of Thermodynamics	5
Gibbs and Hemholtz Energies	6
Non-Electrolyte Solutions	7
Electrolyte Solutions	8

### Grading:

Take Home Quizzes	20%	
Midterm Exam	40%	6:30 - 8:30 pm, Tues, Feb 7th
Final Exam	40%	11:30 AM - 1:18 PM, Tue, March 13th

### Homework and Quizzes:

Homework Assignments can be found at [www.grandinetti.org/Teaching/Chem520/Homework](http://www.grandinetti.org/Teaching/Chem520/Homework)

Penalty for late Quizzes: 10% per day late

### Assignments/Exams missed because of illness:

Please contact Dr. Grandinetti as soon as possible, preferably before due date or exam time.

All students with documented disabilities, who need accommodations, should see the instructor privately to schedule an appointment as early in the quarter as possible. If your disability requires materials in alternative format, please contact the Office for Disability Services at 292-3307, Room 150 Pomerene Hall.

**ACADEMIC MISCONDUCT:** Any material submitted in Chem. 520 must represent your own work. Apparent violations of this standard will be referred to the University Committee of Academic Misconduct (COAM) as required by Faculty Rules. Please read the attached statement on Standards of Academic Conduct carefully. See the URL:

<http://oaa.osu.edu/coam/home.html>

for further information about the Student Code of Conduct.