

Chem 162 General Chemistry II Syllabus, Fall 2013

- *When:* TTh 9:00-10:15am
- *Where:* Physical Science Bldg Room 217
- *Instructor:* [Dr. Andrei Natarov](#)
 - office hours: TTh 10:30am - noon, Bilger 247
 - email: natarov@hawaii.edu

General Information

- **Course prerequisites:** C or better in Chem 161
- **Overrides etc:** see Alicia, Bilger 241A
- **Required textbooks:** *Chemistry: A Molecular Approach*, 2nd ed., N. J. Tro (Pearson) and Student Solutions Manual
- **Website:** www.masteringchemistry.com, course ID: [MCNATAROV21941](#)
- **Tutors and TAs:** Tutors' room is located at [Bilger Addition 209](#). The TAs will be available to help with lecture and lab material. TA schedule TBA.

Course Content, Exam Schedule and Grading

- Exam 1 based on Ch 11 & 12: Thursday, September 19, 18% of the grade
 - Ch 11: Liquids, Solids and Intermolecular Forces
 - Ch 12: Solutions
- Exam 2 based on Ch 13 & 14: Thursday, October 17, 18% of the grade
 - Ch 13: Chemical Kinetics
 - Ch 14: Chemical Equilibrium
- Exam 3 based on Ch 15 & 16: Thursday, November 14, 18% of the grade
 - Ch 15: Acids and Bases
 - Ch 16: Aqueous Ionic Equilibrium
- Final exam: comprehensive exam, but 50% based on Ch 17 & 18: Tuesday, December 17 [9:45m-11:45am](#), 36% of the grade
 - Ch 17: Free energy and thermodynamics
 - Ch 18: Electrochemistry
- Homework problems: 10% of the grade
 - I will post a new homework assignment on the web every Tuesday and it will be due the following Monday.
 - The first assignment will be posted on September, 3rd.

Tentative Schedule:

TUESDAY		THURSDAY	
Aug 27th Intermolecular forces 11.2,3	1	29th Phase diagrams 11.5,6 - 9	2
Sep 3rd Solutions 12.1,2	3	5th Solutions 12.3,4	4
10th Solutions 12.5,6	5	12th Solutions 12.7,8	6
17th Review	7	19th Midterm Exam 1	8
24th Chemical kinetics 13.1 - 3	9	26th Chemical kinetics 13.4,5	10
Oct 1st Chemical kinetics 13.6,7	11	3rd Chemical equilibrium 14.1 - 3	12
8th Chemical equilibrium 14.4 - 6	13	10th Chemical equilibrium 14.6 - 9	14
15th Review	15	17th Midterm Exam 2	16
22nd Acids and bases 15.1 - 4	17	24th Acids and bases 15.5 - 8	18
29th Acids and bases 15.9 - 12	19	31st Aqueous ionic equilibrium 16.1 - 3	20
Nov 5th Aqueous ionic equilibrium 16.4 - 6	21	7th Aqueous ionic equilibrium 16.7 - 8	22
12th Review	23	14th Midterm Exam 3	24
19th Thermodynamics 17.1 - 3	25	21st Thermodynamics 17.4 - 6	26
26th Thermodynamics 17.7 - 9	27	28th Thanksgiving break	

TUESDAY		THURSDAY	
Dec 3rd	28	5th	29
Electrochemistry 18.1 - 3		Electrochemistry 18.4 - 6	
10th	30	12th	31
Electrochemistry 18.7 - 9		Comprehensive Review	
17th	32	19th	33
Final Exam			