

CHEM 1515
Second Semester
General Chemistry

1/19/21

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CHEM 1515
Second Semester of General Chemistry
Students must be enrolled/attend:
 Lecture (MWF 9:30 pm - 10:15 pm)
 Laboratory (Sections 20511 and 20516)

Instructor:
 John I. Gelder
 RM PS 118 744-7005
 john.gelder@okstate.edu

Course web site(still working on it)
<http://intro.chem.okstate.edu>

Office Hours MWF 11:00 am – 12:00 pm and by appointment via Zoom

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CHEM 1515 Laboratory Sections

Section	Lab Day	Time	TA	Lab Room
20511	Thursday	12:30 pm – 3:15 pm	Austin Anderson	PS258
20516	Thursday	12:30 pm – 3:15 pm	Haoran Zhong	PS259

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Course Outline

Text: Interactive General Chemistry, Jessica White, Brian Anderson, Brandon Green, Mildred Hall, Macmillan Learning on Canvas

Lab Manual: CHEM 1515 Lab Manual 2020 - 2021 on Canvas

Lecture Workbook: During Class Inventions and Computer Laboratory Activities [Volume II](#), 3rd Edition, Abraham, Gelder and Greenbowe

Lecture: TR 9:30 am - 10:15 am

Discussion: 1 hour (must attend)

Laboratory: 2 hours, once a week, begins this week

Syllabus and General Information (online)

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Course Outline

Examinations - 5 (100 points each)

Laboratory - 12 (15 points each, drop lowest two laboratory scores...150 pts)

Problem Sets - ~21 (12 points each, 16 PS scores...200 pts)

14 PS due at the beginning of class (combination of Personal Page PS).

4 BCE(before class online)/ACA (after class online)

2 DCI (inclass activities, randomly collected)

PS graded HELP! Page

BCE/ACA/DCI not graded....must make good faith effort.

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Problem Sets Portion

► Problem Set Grade (200 pts)

- Personal Page Problem Sets Answers submitted on the HELP! Page.
- A few problems due several days each week.
- You are responsible for doing ALL the problems on the problem sets.

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Exams

Dates (9:30 am on Wednesdays)

February 10, 2021

March 10, 2021

April 7, 2021

Final, Thursday, May 6, 2021 from 4:00 p.m. - 5:50 p.m.

(CHEM 1515 Common Exam)

Mixture of free-response and multiple choice questions

No makeups

Graphing calculators allowed

Sample exams on your Personal Page Assignment Page

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Laboratory

Meet each week.

Begins this week: Safety video, safety quiz, Review Problem Set and Problem Set 1

Supervised by a chemistry graduate student.

Safety goggles required (you can purchased approved eye protection during the 2nd week.)

Late more than 10 minutes you will not be allowed to attend laboratory. This begins with the discussion time which could be 12:30 pm BE CAREFUL!

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Laboratory

Mixture of hands-on laboratory experiments and online laboratory experiments.

Laboratory information available on your Personal Page Assignment Page.

On-line laboratory experiments have quizzes.

4 or more labs missed...automatic 'F' in CHEM 1515.

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Problem Sets

Pick up at your Personal Page.
 Randomized problems
 Working together encouraged
 BUT answer your own questions...copying will be punished by awarding a zero to all students involved (Academic Integrity).
 DO NOT ASK to copy...DO NOT ALLOW copying!
 Answers must be submitted by the due date.
 Some PS will be turned in immediately before exam
 HELP Page (answer as many as you want as many times as you want!)

RPS: Use resources to help you remember!
 HELP! (HELP! Sessions before each exam) via Zoom
 Answers available (.pdf Adobe Acrobat) on your Personal Page after due date!

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Before Class Explorations

Access from your Personal Page
 Online questions must be completed before the beginning of each class
 Not graded, checked for completion/ reasonable effort
 Require 10 - 15 minutes
 You may use your textbook, calculator
 Good study aids for examinations
 Printout Expert's response and bring to class.
 Only proof that you did the BCE is the Response Page

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During Class Inventions

During Class Invention and Computer Lab Activities
 Workbook, Volume II, 3rd Ed. See Syllabus for link
 Bring to class (lecture and lab) everyday
 Work activities in small groups
 Randomly collected at the end of class
 Answers available following lecture on your Personal Page Assignment Page
 Good study aids for examinations

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After Class Applications

Access from your Personal Page
 Online questions must be completed by midnight the day before the next lecture
 Not graded, checked for completion/ reasonable effort
 Require 10 - 15 minutes
 You may use your textbook, calculator
 Good study aids for examinations
 Printout Expert's response and bring to class

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Grades

Exams 500 pts (five @ 100 pts each)
 Labs 150 pts (eleven @ 15 pts each)
 PS 200 pts (sixteen @ 12 pts each)

Exam total = sum of five exam scores
 Lab total = (Lab% / 100) * 150 pts
 PS total = (HW% / 100) * 200 pts

See ACA#1

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Grades

A 85% - 100% (723 - 850 points)
 B 75% - 84% (638 - 722)
 C 55% - 74% (468 - 637)
 D 40% - 54% (340 - 467)
 F below 40%

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Grades

A 85% - 100% (723 - 850 points)
 B 75% - 84% (638 - 722)
 C 55% - 74% (468 - 637)
 D 40% - 54% (340 - 467)
 F below 40%

Sound easy....? I hope it is!!!

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Before Class, Thursday, 1/18/18

Go to <http://intro.chem.okstate.edu> and click on CHEM 1515 SP18
 Click on SID#/Name and enter your name and SID
 Click on Personal Page link
 Complete ACA#1 and BCE#1 (have your textbook close by)
 Pick up Review Problem set (PS#0) and PS#1
 Print out lecture notes
 Get this set of slides on your Personal Page Assignment Page

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From CHEM 1314

- ▶ Phase and formulas of all elements;
- ▶ names of common elements;
- ▶ Common type of reactions: formation, combustion, neutralization, double replacement;
- ▶ Always have a solubility table;
- ▶ Charges on common ions;
- ▶ Periodic table-electron configurations and common periodic trends;
- ▶ Formulas of acids (always begin with H) and bases;
- ▶ First law of thermodynamics, enthalpy, Hess' law
- ▶ VSEPR
- ▶ Stoichiometry

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Personal Page

Point browser to
<http://intro.chem.okstate.edu> or
<http://genchem1.chem.okstate.edu/1515SP21/Default.html>

Click on SID#/Name link to enter your name and Secret Identification number or name. DO NOT use leading 0 (zero) in your SID.

Logon to Personal Page:

Assignment Page (learning objectives, lecture info & notes, laboratory info, important links and more)
BCE and ACA
Grades
Problem Sets, ...more

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