

|                     |          | CHEM 1515 Labor    | ratory Sections |          |
|---------------------|----------|--------------------|-----------------|----------|
| Section             | Lab Day  | Time               | TA              | Lab Room |
| <mark>20</mark> 511 | Thursday | 12:30 pm – 3:15 pm | Austin Anderson | PS258    |
| <mark>20</mark> 516 | Thursday | 12:30 pm – 3:15 pm | Haoran Zhong    | PS259    |
|                     |          |                    |                 |          |



# **Course Outline**

Text: Interactive General Chemistry, Jessica White, Brian Anderson, Brandon Green, Mildred Hall, Macmillian 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) เดด₂your 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

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Good study aids for examinations

# After Class Applications

Access from your Personal Page

Online questions must be completed by midnight the day before the next lecture

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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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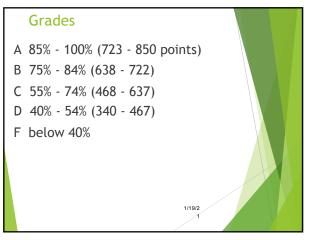
## Grades

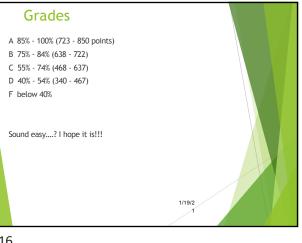
Exams .... 500 pts (five @ 100 pts each) Labs ...... 150 pts (eleven @ 15 pts each) PS ...... 200 pts (sixteen @ 12 pts each)

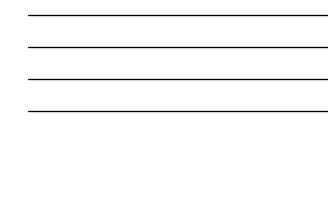
Exam total = sum of five exam scores Lab total = (Lab% / 100) \* 150 pts PS total = (HW% / 100) \* 200 pts

See ACA#1

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# Before Class, Thursday, 1/18/1

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

# Personal Page Point browser to http://intro.chem.okstate.edu\_or http://genchem1.chem.okstate.edu/15155P21/ Default.html Click on SID#/Name link to enter your name and Secret Identification number or name. DO NOT use leading o (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

