

**CHEM 1314**

First Semester of General Chemistry

**CHEM 1314 (L,N) General Chemistry. Lab 2.**  
 Prerequisite(s): MATH 1513 with grade of "C" or better or concurrent enrollment in MATH 1613, MATH 1715 or a higher level math course. The beginning chemistry course recommended for students in basic biological sciences (including pre-medical science and pre-veterinary science), physical sciences and engineering. May not be used for degree credit with 1014, 1215 or 1414.

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**CHEM 1314**

First Semester of General Chemistry

Students must be enrolled/attend in:

- Lecture
- Laboratory

Instructor:  
 John I. Gelder  
 RM 201 PS 744-7005  
[john.gelder@okstate.edu](mailto:john.gelder@okstate.edu)

Course web site <http://intro.chem.okstate.edu> or <http://genchem1.chem.okstate.edu/1314F17/Default.html>

Office Hours 10:30 am– 12:30 pm on T and R and by appointment (grade conversations).

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CHEM 1314					
CRN	Day	Time	Room	TA	
60728	Monday	8:30 am -10:20 am	PS258	Tom	Moulton
60729	Monday	1:30 pm -3:20 pm	PS259	Sabrina	Farias
60731	Tuesday	8:30 am -10:20 am	PS258	Salik	Dahal
60732	Wednesday	8:30 am -10:20 am	PS257	Tom	Moulton
60733	Wednesday	1:30 pm -3:20 pm	PS257	Sabrina	Farias
60734	Thursday	8:30 am -10:20 am	PS257	Salik	Dahal
60735	Friday	8:30 am -10:20 am	PS258	Tom	Moulton
60736	Friday	1:30 pm -3:20 pm	PS255	Salik	Dahal
69237	Friday	1:30 pm -3:20 pm	PS260	Sabrina	Farias

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### Course Outline

Text: Tro, Chemistry: A Molecular Approach  
4<sup>th</sup> edition

Lab Manual: CHEM 1314 Lab Manual

Lecture Activity Manual: During Class  
Inventions and Computer Lab Activities  
Workbook Volume I .... 3rd Edition

Lecture: TR at 3:30 pm - 4:45 pm

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

Syllabus (online)

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### Course Outline

Examinations - 5 (100 points each) **all count**

Laboratory - 13 (15 points each, drop lowest two  
laboratory scores...150 pts) **top 11 labs**

Problem Sets – ~22 (12 points each, drop lowest 4  
- 5 PS scores....200 pts) **top 16 PS**

15 PS due online Help! page

4 BCE (online)/ACA (online)

2 DCI (inclass activities, randomly collected)

1 Class Survey

Supplemental Instruction – at least 10 sessions  
(20 pts)

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

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### Common Exams

Hour Exam Dates (5:30 pm on Wednesdays)

September 13, 2017

October 18, 2017

November 8, 2017

Final Exam Date

Final, Monday, December 11, 2017 from 4:00 p.m. -  
5:50 p.m.

Mixture of free-response and multiple choice questions

No makeups

Sample exams on your Personal Assignment Page  
(the week of), also digital videos

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## Laboratory

Meet each week for two hours.

Begins this week

Supervised by a chemistry graduate student.

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

Mixture of hands-on laboratory experiments and online laboratory experiments

Laboratory information available on your Personal Assignment Page

Majority of laboratory experiments have pre-lab questions.

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## Problem Sets

Pick up at your Personal Page

Problems randomized

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!

Some PS will be turned in immediately before exam

Submit answers on the HELP! Page (online)

Answers available (.pdf Adobe Acrobat) following due date.

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## Supplemental Instruction

### • SI Grade (20 pts)

- Required to attend a minimum of ten 50 – minute session during the semester;
- Facilitated by an undergraduate student who has completed 1314 and 1515 with high grades;
- Attend, participate, complete activities, be engaged;
- Not specifically for homework or lab problem solving sessions
- SI facilitators have office hours to help solve homework or lab questions.
- Office hours are not SI sessions

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## Personal Page

Point browser to

<http://intro.chem.okstate.edu> or

<http://genchem1.chem.okstate.edu/1314F17/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.

Student Information EXTRA Credit

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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## Before Class Explorations (BCE)

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

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## During Class Inventions (DCI)

Purchase During Class Invention and Computer Lab Activities Workbook

Bring to class everyday

Work activities in small groups

DCI answers available following lecture on your Personal Page Assignment Page

Good study aids for examinations

Answer clicker questions

Clickers : Turning Point

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### After Class Applications(ACA)

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 (ten or eleven@ 15 pts each)  
PS ..... 200 pts (sixteen@ 12 pts each)  
SI .....20 pts (10 SI sessions)  
Exam total = sum of five exam scores (3 hour exam ave = 59.4)  
Lab total = (sum of highest 11 lab scores/165) \* 150 pts (in 2016 the average % = 83.5%)  
PS total = (sum of highest 16 PS scores/192) \* 200 pts (in 2016 the average % = 82.0%)  
SI points = 20 pts or 0 pts (attendance taken)

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### Grades

A 85% - 100%  
B 75% - 84%  
C 55% - 74%  
D 40% - 54%  
F below 40%

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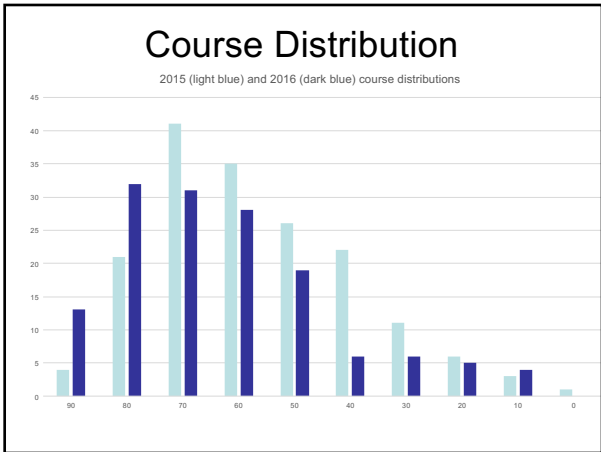
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### Class Attendance F15 – F16

Classes Missed	Average Course %	# of Students
0 - 1	75 %	87
3 - 5	64 %	29
6 - 10	57%	17
11 -	40%	19
0 - 1	78%	85
3 - 5	62%	22
6 - 10	61%	15
11 -	44%	19

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### Grades

A 85% - 100%

B 75% - 84%

C 55% - 74%

D 40% - 54%

F below 40%

Sound easy....? It is not.

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**Before Class, Thursday 8/23/17**

Go to <http://intro.chem.okstate.edu> and click on CHEM 1314 F17

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 or the ebook open in another Tab or Window)

Print out PS#0 and PS#1

Get this set of slides on your Personal Assignment Page

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