

# Chemistry 1121 Syllabus

## Principles of Chemistry

### Fall 2018

INSTRUCTOR Dr. Andrew Napper

OFFICE Massie 323

TELEPHONE 351-3100

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OFFICE HOURS TR 1:30 PM – 3:00 PM F 11–11:50 AM

LECTURE TR 3:30 PM – 4:48 PM (ATC 134)

LABORATORY M 2:00 PM – 4:53 PM Section 01 (Massie 333)  
T 6:30 PM – 9:23 PM Section 03 (Massie 333)

#### ATTENDANCE POLICY

Attendance at lectures and laboratories is required. *Two or more unexcused lab misses will result in an F grade for Chem 1121.* Missed labs cannot be made up. You may be excused from lab for illness (provided a doctor's note is made available to me clearly stating the days you were ill), or because of hazardous weather conditions.

#### EXCUSED ABSENCE POLICY

In case of illness, accident, family emergency, or university-sponsored activity, you may be excused from labs, quizzes, and/or homework. In case of a missed exam, a make-up exam will be provided.

For university-sponsored activities, an official excused absence slip must be obtained. This must be obtained in advance of the activity and given to the instructor one-week before your absence.

For other absences, suitable documentation (such as a doctor's note, police accident report, etc.) must be provided within one-week of the excused absence. For absences longer than one week, an academic dean or the dean of students may issue you an excused absence which you can present to your instructor.

Unexcused absences will result in a grade of zero for the assignment.

#### REQUIRED MATERIALS

Note: you already have access to both the e-textbook and MasteringChemistry today!

*Fundamentals of General, Organic, and Biological Chemistry*, 8/e  
—McMurry, Castellion, and Ballantine

MasteringChemistry—Bundled with the textbook or a separate access card

*Chemistry 1121* lab manual

A **non-programmable** scientific calculator such as a TI-30 XIIS

Safety goggles or visorgogs. (ANSI Z87)

## GRADING

4 exams .....	50 %
Final exam (Comprehensive) .....	15 %
Online Homework.....	15 %
Laboratory.....	20 %

## COURSE WEBSITE

PowerPoint lecture notes, practice exams, and other useful information will be posted on the course website: <http://chem1121.ssuchemistry.com>

## GRADING SCALE

%	Grade	%	Grade	%	Grade
>93	A	77–80	C+	60–63	D–
90–93	A–	73–77	C	<60	F
87–90	B+	70–73	C–		
83–87	B	67–70	D+		
80–83	B–	63–67	D		

## LECTURE MATERIAL

- Chapter 1 Matter and Measurements
- Chapter 2 Atoms and the Periodic Table
- Chapter 3 Ionic Compounds
- Chapter 4 Molecular Compounds
- Chapter 5 Classification and Balancing of Chemical Reactions
- Chapter 6 Chemical Reactions: Mole and Mass Relationships
- Chapter 9 Solutions
- Chapter 8 Gases, Liquids, and Solids
- Chapter 7 Chemical Reactions: Energy, Rates, and Equilibrium
- Chapter 10 Acids and Bases
- Chapter 11 Nuclear Chemistry

## ONLINE GRADEBOOK

Grades will be posted on Blackboard (<http://blackboard.shawnee.edu>). The grades will be weighted according to the percentages listed on the syllabus.

## EXAM SCHEDULE

- Exam 1 Tuesday, September 18th
- Exam 2 Tuesday, October 16th
- Exam 3 Thursday, November 8th
- Exam 4 Thursday, December 6th
- Final Exam Thursday, December 13th @ 2pm

**MASTERINGCHEMISTRY** You should log on and create your account as soon as possible! Online homework will be assigned on a weekly basis. The homework set may consist of tutorials, homework problems, and review problems. Each homework set will be made available on Friday by 5 P.M., and will be due the following Friday by 5 P.M.

- You will be able to access online assignments on Blackboard. They are located in the “Online Assignments” tab on the left side of the screen. The first time you take an assignment you will be required to log onto your MasteringChemistry account. After doing so, your account will be linked to SSU’s BlackBoard site, and you will not have to log in separately.
- The inclusive-access course-fee provides you with access to the textbook and an account with MasteringChemistry at a significant cost savings. The access-code for MasteringChemistry (for students who do not opt out of the inclusive-access plan) is: **PSCMGE-CHOLI-FLORY-SPRUE-BUSBY-ADOWA**

## HOMEWORK

Problem solving is an *essential* part of your study of chemistry. As you study, you should be working problems from your textbook on each topic. It is strongly suggested that you work the following problems which will serve as a guide for material for quizzes and exams. The answers and worked-out solutions are available to you in the solutions manual for the even-numbered questions in the book. Answers to the odd-numbered questions are found at the end of our textbook.

- Chapter 1: 35, 43, 47, 55, 61, 67, 77, 87, 89  
Chapter 2: 33, 39, 41, 45, 49, 57, 75  
Chapter 3: 31, 39, 43, 47, 59, 63, 65, 67, 71, 73, 74, 79, 83  
Chapter 4: 25, 31, 35, 47, 49, 51, 61, 65, 71, 73, 75, 81, 83, 93  
Chapter 5: 17, 23, 27, 29, 33, 39, 43, 61  
Chapter 6: 19, 29, 31, 33, 37, 41, 63  
Chapter 7: 25a, 26a, 30a–b, 41, 45, 49, 59a, 59c, 60a, 60c, 61, 63, 65  
Chapter 8: 26, 32, 33, 39, 41, 43, 47, 49, 51, 53, 57, 61, 63, 81, 85, 86, 92  
Chapter 9: 27, 35, 37, 41, 45, 55, 57, 59, 67, 75, 79, 80, 83  
Chapter 10: 39, 43, 47, 49, 53, 55, 57, 65, 75  
Chapter 11: 45, 47, 53, 57, 78

## DISABILITIES

Any student who believes s/he may need an accommodation based on the impact of a documented disability should first contact a Coordinator in the Office of Accessibility Services, Hatcher Hall, 740-351-3106 to schedule a meeting to identify potential reasonable accommodation(s). Students are strongly encouraged to initiate the accommodation process in the early part of the semester or as soon as the need is recognized. After meeting with the Coordinator, students are then required to meet with their instructor's during the instructor's office hours to discuss their specific needs related to their disability. The accommodation letter will be sent to the instructor and student via e-mail prior to the semester start date. Any questions regarding the accommodations on the letter should be addressed to the Coordinator of Accessibility Services. If a student does not make a timely request for disability accommodations and/or fails to meet with the Coordinator of Accessibility Services and the instructor, a reasonable accommodation might not be able to be provided.

## GENERAL EDUCATION PROGRAM

Chemistry 1121 counts towards the Natural Science component of the General Education Program (GEP) and addresses Scientific Reasoning.

## WHO SHOULD TAKE THIS COURSE?

The typical audience for this course are: health-science, nursing, medical laboratory technology, and middle-childhood education majors. You may also be taking this course if you are interested in chemistry (yay!), are seeking to satisfy the natural sciences general education category, or curious about how things work.

## LAB SCHEDULE

Week Beginning	Monday	Tuesday
August 27th	1	1
September 3rd	Labor Day (No lab)	No lab
September 10th	2	2
September 17th	3	3
September 24th	4	4
October 1st	5	5
October 8th	6	6
October 15th	7	7
October 22nd	8	8
October 29th	9	9
November 5th	10	10
November 12th	Veterans day (no lab)	11
November 19th	11	No lab
November 26th	12	12
December 3rd	13 & 14	13 & 14

## LABORATORY INFORMATION

1. TECH 380—Safety Practices in the Chemistry Laboratory
2. REAC 399—Detecting signs of chemical change
3. PROP 602—Determining density
4. PROP 375—Separating the components of a ternary mixture
5. REAC 480—A sequence of chemical reactions: transforming copper
6. STRC 631—Visualizing chemical structures using Lewis models
7. REAC 610—Observing Single Replacement Reactions
8. REAC 390—Double replacement reactions
9. STOI 388—The empirical formula of an oxide
10. PROP 615—Studying Some Aspects of Solubility
11. Juice Titration (handout)
12. EQUL 411—Estimating the pH of household products
13. EQUL 616—Introducing Chemical Equilibrium
14. Checkout

## LABORATORY INFORMATION

Safety goggles or visorgogs are required to be worn for all laboratories. They must meet ANSI z87 requirements (normally this information is permanently stamped on the goggles). Laboratory coats are recommended, but not required.

Full length pants or full-length skirts are required to be worn in lab. Shoes that cover all parts of your feet are also required.

If you are improperly dressed for lab, you will be asked to leave and awarded a zero for the lab assignment.

You must remain in lab with your lab partner until the lab report is turned in. If you leave lab early you will be counted as absent, and will receive a zero.

Professor Vincent George will be teaching the **Monday laboratory** part of the course. His contact information is:

**Telephone:** (740) 351-3895 or (740) 351-3456

**email:** [vgeorge@shawnee.edu](mailto:vgeorge@shawnee.edu)

**Office:** Massie Hall, room 403

Professor Dan Finnen will be teaching the **Tuesday laboratory** part of the course. His contact information is:

**Telephone:** (740) 351-3015

**email:** [dfinnen@shawnee.edu](mailto:dfinnen@shawnee.edu)

**Office:** Massie Hall, room 428

Your lab professors will go over their lab expectations with you during your first lab meeting period.

## WHAT SHOULD I DO IF I NEED HELP?

If you need help—don't wait too long before you seek it out! The following is a partial list of options that are available to you:

- Student success center tutoring. Stop by the success center and sign up for a tutor!
- Browse my course website for objectives, old exams, lecture notes, quizzes, etc.
- eTutoring is available 24 hours a day, 7 days a week through a consortium arrangement offered to universities in Ohio. You can access the link through MySSU—or ask in the success center.
- YouTube. Amazing selection of videos on any topic you can think about. The Khan Academy videos are an excellent place to start.
- Office hours. Stop by if you have any questions about the course!

## ELECTRONIC DEVICE POLICY

Cell phones (and other similar electronic devices, such as laptop computers, netbooks, iPads, iPods, smart-watches, etc.) are not permitted to be used during exams and lab.

## DISCLAIMER

ALL DATES AND POLICIES ARE SUBJECT TO CHANGE AS ANNOUNCED IN CLASS.

