

Chemistry 1141 Syllabus

General Chemistry 1

Fall 2026

Table of Contents

Course Information	2	Laboratory	6
<i>Contact Information.....</i>	<i>2</i>	<i>Laboratory information</i>	<i>6</i>
<i>Office hours.....</i>	<i>2</i>	<i>Lab schedule</i>	<i>7</i>
<i>Class Meeting Times.....</i>	<i>2</i>	<i>Laboratories</i>	<i>7</i>
Grading & Assessment	2	Course Overview	8
<i>Grading</i>	<i>2</i>	<i>Who should take this course?.....</i>	<i>8</i>
<i>Grading scale.....</i>	<i>3</i>	<i>General education program</i>	<i>8</i>
<i>Final exam</i>	<i>3</i>	Class Resources	8
<i>Grading errors.....</i>	<i>3</i>	<i>Is chemistry hard?.....</i>	<i>8</i>
Class Schedule	3	<i>Do I have to attend every lecture?.....</i>	<i>8</i>
<i>Lecture material</i>	<i>3</i>	<i>What should I do if I need help?.....</i>	<i>8</i>
<i>Online homework.....</i>	<i>4</i>	<i>How to study for this class</i>	<i>9</i>
<i>Quiz.....</i>	<i>4</i>	Course Policies	9
<i>In-class activities.....</i>	<i>4</i>	<i>Attendance policy.....</i>	<i>9</i>
<i>Study requirements.....</i>	<i>4</i>	<i>Excused absence policy</i>	<i>9</i>
<i>Blackboard course-site</i>	<i>4</i>	<i>Electronic device policy</i>	<i>10</i>
<i>End-of-chapter problems.....</i>	<i>5</i>	<i>University ADA statement</i>	<i>10</i>
Required Materials	5	<i>Religious accommodations</i>	<i>10</i>
		Disclaimer	10

Course Information

Contact Information

Instructor:

Dr. Andrew Napper

Office:

Massie 323

Telephone:

740-351-3100

Email:

anapper@shawnee.edu

Office hours

Tuesday 1 – 2 PM

Wednesday 10 – noon

Friday 10 – 11 AM

Class Meeting Times

Lecture:

Monday 1:00 – 2:20 PM (Massie 020)

Wednesday 1:00 – 2:20 PM (Massie 020)

Friday 1:00 – 2:20 PM (Massie 020)

Lab:

Monday 2:30 – 5:20 PM (Massie 339) – **Section 03**

Wednesday 2:30 – 5:20 PM (Massie 339) – **Section 04**

Grading & Assessment

Grading

4 exams	45 %	(Massie 020)
Weekly quizzes	10 %	(Massie 020)
In-class activities	5 %	(Massie 020)
Online Homework	10 %	(Cyberspace)
Final exam (Comprehensive).....	15 %	(Massie 020)
Laboratory	15 %	(Massie 339)

Grading scale

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

Note: To earn a course grade of C– or higher, a student must meet at least one of the following requirements:

- Pass (>59.5%) at least three of the four semester exams; or
- Score at or above the 30th percentile on the ACS standardized final examination.

A student who meets neither requirement will have their final course grade capped at D+, regardless of the numerical course average.

Final exam

Wednesday, December 9, noon (Massie 020)

Grading errors

If you notice a grade error on Blackboard for quizzes, exams, etc.—you need to bring it to the instructor's attention in writing within one week of the due date (for an online assignment) or one week from the assignment being handed back (lab/exam assignments).

Class Schedule

Lecture material

Chapter 1 Measurement and the Properties of Matter

Chapter 2 Atoms, Ions, and Molecules

Chapter 3 Mass Relationships in Chemical Reactions

EXAM 1 (Thu, Sep 24) – up to and including chapter 3.7

Chapter 4 Reactions in Aqueous Solutions

Chapter 5 Gases

EXAM 2 (Thu, Oct 22) – chapters 3.8 – 5 inclusive

Chapter 6 Thermochemistry

Chapter 7 Quantum Theory and the Electronic Structure of Atoms

Chapter 8 Periodic Relationships Among the Elements

EXAM 3 (Thu, Nov 12)

Chapter 9 Compounds and Bonding

Chapter 10 Structure and Bonding Theories

EXAM 4 (Thu, Dec 3)

Exams 1–4 These will be held in Massie 020 from 5 PM – 7 PM. They are joint exams that all sections of General Chemistry 1 will take together. A make-up exam will be available for students who have a documented university obligation, scheduled athletic travel, or another approved conflict.

Online homework

You should log on to ALEKS 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 PM and will be due the following Monday by NOON.

- ☐ You will be able to access online assignments on Blackboard.
- ☐ The inclusive-access course-fee provides you with access to the textbook and an account with ALEKS at a significant cost savings.

In addition, during the first week the following will need to be completed by Sunday at midnight. Allot about two (2) hours to complete this first set of assignments.

- ☐ ALEKS tutorial
- ☐ Initial Knowledge Check
- ☐ Review Module

HINT: It is highly recommended you do not complete the ALEKS assignments in a single sitting. Spread out your studying over several days for optimal benefit. Cramming the assignments into a single marathon session generally makes things less beneficial for learning and mastering the material.

Quiz

A 10-minute quiz will be given at the start of Monday's lecture. It will cover material from the previous week's lectures.

In-class activities

In-class activities worth various points will be completed, unannounced, during the semester. You must be present for the ENTIRE class period to receive credit for in class activities. No make-ups will be allowed; however, the excused absence policy will apply. For some in-class activities you may be required to watch an online lecture before coming to class. There may also be some online assignments, which will be completed outside of class.

Study requirements

To be successful in General Chemistry, you will need to study at least two hours outside the classroom for every hour spent in lecture.

Blackboard course-site

Notes, handouts, and other useful pieces of information will be available at the following URL(s): <https://blackboard.shawnee.edu/>
<https://chem1141.ssuchemistry.com/>

End-of-chapter problems

It is strongly suggested that you work the following problems which will serve as a guide for material for exams. The answers are available to you in the eBook for the **even**-numbered questions.

Chapter 1 6, 10, 20, 34, 46, 52, 56, 64, 82, 102

Chapter 2 6, 12, 16, 26, 28, 36, 48, 52, 60, 62, 76, 102

Chapter 3 6, 16, 18, 28, 40, 50, 58, 64, 72, 84, 92, 120, 160

Chapter 4 10, 22, 44, 60, 66, 76, 84, 92, 98, 122, 144

Chapter 5 14, 18, 32, 44, 56, 72, 98, 108, 114, 130, 154

Chapter 6 24, 34, 38, 54, 60, 76, 84, 98, 132

Chapter 7 4, 8, 30, 32, 40, 50, 58, 72, 76, 88, 98, 114, 130

Chapter 8 12, 16, 24, 30, 44, 52, 60, 64, 120, 130

Chapter 9 4, 18, 38, 46, 52, 58, 66, 76, 84, 94, 100, 118

Chapter 10 4, 10, 16, 26, 36, 42, 44, 62, 76, 86, 122



Required Materials

- Chemistry, Jason Overby 15th Ed. (eBook, accessible via Blackboard)
 - Note: you can also purchase a loose-leaf copy of the book for around \$30 from the bookstore: ISBN: 9781266334474
- ALEKS (online homework, accessible via Blackboard)
- Chemistry 1141 Lab Manual, Fall 2026
- A non-programmable scientific calculator (TI-30XIIS)
- Safety goggles or visorgogs (ANSI Z-87 approved)
 - Safety glasses are **not** suitable.

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

Laboratory information

Safety goggles or visorgogs (NOT GLASSES!) 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.

Lab reports must be turned in *at the end of each lab*. Late lab reports will not be accepted. Turned in lab reports must have your full name and your lab partner's full name clearly written on the front page to receive a grade.



Lab schedule

Week Beginning	Monday	Wednesday
Aug 24	1	1
Aug 31	2	2
Sep 7	Labor Day	3
Sep 14	4	4
Sep 21	5	5
Sep 28	6	6
Oct 5	7	7
Oct 12	8	8
Oct 19	9	9
Oct 26	10	10
Nov 2	11	11
Nov 9	12	12
Nov 16	No lab	Veteran's day
Nov 23	13	Thanksgiving
Nov 30	14	13 & 14

Laboratories

1. Check-in, safety, and conversions
2. Accuracy and precision
3. A forensic analysis of ink
4. Determining the formula of a hydrate
5. A forensic chemistry exercise involving empirical formulas
6. Double-replacement reactions
7. An introduction to titrations
8. Calcium carbonate determination of an eggshell
9. Determining the ideal gas constant, R
10. Calorie content of nuts
11. Determining the enthalpy of neutralization
12. Lewis structures
13. Molecular modeling using Hyperchem Lite 2.0
14. Check-out

Course Overview

Who should take this course?

The typical audience for this course is: science, engineering, pre-pharmacy, pre-medicine, and science 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 are simply curious about how things work.

General education program

General Chemistry 1 counts towards the Natural Science component of the General Education Program (GEP) and addresses Scientific Reasoning.

Class Resources

Is chemistry hard?

Yes. But not impossible. Consider setting aside several hours a week to practice end-of-chapter homework problems, forming a study group, re-reading your ALEKS assignments, reading the textbook, and quizzing yourself. Reviewing old material every few weeks has been shown to dramatically improve retention of material in college!

Do I have to attend every lecture?

Not attending lecture tends to correlate with doing poorly in chemistry. Do not get into the habit of missing class if you can possibly avoid it.

At mid-term I will be reporting your expected grade and attendance to the Registrar. This information will be provided to your academic advisor(s), as well as student support services.

What should I do if I need help?

If you need help—don't wait too long before you seek it out! The following are some resources available to you:

- ☐ Student success center (SSC) tutoring.
- ☐ Browse my course website for old exams, lecture notes, quizzes, etc.
- ☐ YouTube. Amazing selection of videos on any topic you can think about. The *Khan Academy* videos are an excellent place to start.
- ☐ Office hours. I hold four office hours a week over three days. Stop by if you have any questions about the course!

How to study for this class

Buy a composition notebook to work problems in.

- ☐ *Skim* through the textbook section before you come to each class
- ☐ After each class, but before the next class, go through the Example problems in the chapter. Do the “Practice Exercise” problems after each example. You can click the “Answer” button in the eBook to reveal the solutions.
- ☐ In a separate notebook, answer the problems at the end of each chapter that go over the relevant sections. You can click the “Answer” button in the eBook to reveal the solutions

Before the exams:

- ☐ One week before each exam, thoroughly read your notes, being sure to work out any problems yourself that we went over. Try covering up my worked answers with a blank piece of paper and then working them yourself.
- ☐ Re-work the end-of-chapter and in-chapter problems
- ☐ Print off a practice exam and take it in a timed fashion. Print off the answers and then grade yourself.

Course Policies

Attendance policy

Regular attendance at lectures and attendance at all laboratories are expected and are strongly associated with success in the course. *Two unexcused laboratory absences will result in a course grade of F.* Missed labs cannot be made up. You may be excused from lab for illness (provided a doctor's note is submitted that clearly states the dates of illness), 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.

Electronic device policy

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

University ADA statement

<https://www.shawnee.edu/syllabus-statements>

Religious accommodations

<https://www.shawnee.edu/syllabus-statements>

Disclaimer

All dates and policies are subject to change as announced in class.