

CHEM 130 General Chemistry I

Fall 2017; 5 credit hours
KU Core Goal 3 Natural Sciences

General Information

Lecture: MWF 9:00 – 9:50 AM BUDIG 120

Instructor: Dr. Shuai Sun

Office Hours: TBA

Appointments: <http://chem130135.setmore.com>

Office: 3012 Malott Hall

Lecture TA: Katie Cannon

Office Hours: TBA

Course E-mail: chem130a@ku.edu

Only the course email ID shall be used for all correspondences. Emails sent to the instructor's personal email will not be addressed or replied to. *Discussion Forum* on Blackboard provides equation editor if needed.

Textbook:

Chemistry – Atoms First, 3rd Edition by Burdge, Custom, loose-leaf textbook with Connect access (**available at bookstore**), ISBN: 9781260242775

Chemistry – Atoms First, 3rd Edition by Burdge, ISBN: 9781259923081

Grading

Four Exams	4 × 100 = 400 points
Participation and Performance Points via Clicker	80 points
Pre-lecture and Post-lecture Assignments via Connect	80 points
Weekly Practice	Complete
Lab	240 points
Total	800 points
Extra Credits	See Page 5

Grading Scale:

90% - 100% A

80% - 89% B

70% - 79% C

60% - 69% D

59% and below F

Notice:

1. We use normal rounding rules for this course. For example, 89.5% is rounded to 90%, and 89.4% is to 89%.

2. Lab is up to 30% (240 points) of the total points in this course. Therefore, missing any labs without being excused will lower your grades significantly. This often happens in the first few labs because students forgot to wear **safety goggles, long pants and/or proper shoes**.

Examinations

Exam Schedule:

Exam 1 8:00 – 10:00 PM **September 14, 2017 Room: TBA (Budig 120 and 130)**

Exam 2 8:00 – 10:00 PM **October 12, 2017 Room: TBA (Budig 120 and 130)**

Exam 3 8:00 – 10:00 PM **November 9, 2017 Room: TBA (Budig 120 and 130)**

Exam 4 7:30 – 9:30 PM **December 11, 2017 Room: TBA (Budig 120 and 130)**

Notes on Examinations:

1. All examination will be taken as scheduled. **There are no make-up exams.**
2. Excused absences consist of confirmed illness, unavoidable emergencies, etc. Excused absences are to be cleared in advanced if such clearance is possible. Legitimate reasons include only University related events, other conflicting classes or exams, medical crisis or religious holidays. Reasons that do not fall under the above-mentioned categories will not be excused under any circumstances.
Medical documents are required if a student is excused for medical reasons. The documents should include **student's name, the dates and the reason being excused.**
3. The score of the excused exam will be replaced by the average of the other three exams. **In general, students should not be excused from more than one exam.** Otherwise, students need to contact the course instructor.
4. **Absences that are not excused will result in exam scores of zero.**
5. Topics to be covered in the hour examinations will be announced during the semester. The examinations will test your knowledge of the material and your ability to use the information to solve problems.
6. **Programmable calculators are not allowed.** You should bring to each of the exams a basic scientific calculator. Use of programmable calculators during exams will result in a grade of zero.

Notes and Handouts

- **Notes and handouts will be posted** on Blackboard regularly. Three types of notes will be posted: **skeleton notes** before each chapter, **notes with solutions** after each lecture, and **complete notes** after each chapter. Students are encouraged to use these to preview/review the lectures and **prepare their exams**.
- **Active note-taking** is much more helpful than passively writing down every word on the slides.
- It is very important that you develop good note taking skills and **attend lectures regularly** to be successful in this course. **You are advised to bring a copy of the lecture slides to class with you.**

Participation Points

- Each lecture will be scored out of 2 points based on **participation**, and 1 point based on **accuracy**. 3 points for participating more than 80% of the questions in each lecture. **No written responses** will be accepted.
- The average percentage score up to five sessions will be dropped to handle various situations, like the bus running late, dead batteries, excused absences, etc.
- Normalization of points will be carried out as follows: if you earned 78 of 120 points, your clicker total points at the end of the semester will be $80 \times (78/120) = 52.7$. This will be rounded up to 53, as per normal rounding rules.
- **Clicker Registration:**
 - 1) Go to the CHEM 130 page in Blackboard. Click the link at the bottom of the left panel that says, "Clicker registration."
 - 2) In the new window, enter your clicker ID. You can find the ID on the back of the clicker below the bar code, or found on the clicker window when the clicker is turned on.
 - 3) **Do NOT** register through iclicker.com, as this does not allow us to match your responses with your name in Blackboard. The deadline for registering your *i-Clicker2* on Blackboard is August 21st.
- **Check the clicker frequency of the classroom at the first day of class**, and make sure you set your clicker to the correct frequency. Otherwise the clicker device cannot record your clicker answers.

Homework

- **Registration to Connect:**

Click on the following link: <http://connect.mheducation.com/class/s-sun-fall-2017>

Follow the instructions from the website. **Make sure you register with your real name on roster and KU email address** (not email address from gmail etc.).

If you have trouble registering, you can get help here: <http://bit.ly/StudentRegistration>

Customer service for Connect: <https://mhedu.force.com/CXG/s/ContactUs>

- **Two assignments are given** after each lecture. One is the post-lecture homework which reviews the lecture on that day, and the other is the pre-lecture homework used to preview the next lecture.
- **Weekly practice** will be given each week in Connect. These questions are useful resources to **review the lecture materials** as well as **prepare the examinations**. **It is recommended that students complete the weekly practice on time**. **Weekly practices are graded as extra credits, and it will be normalized to 30 points that can be used *only* to max out the clicker points.**
- Reading assignments aims to help students read the corresponding chapters in the textbook and lecture notes **before** and **after** each lecture, i.e., three days a week.

Extra Credits

- **Extra credit questions in exam:** TBA
- 5 points if the **instructor remembers your name** in the end of the semester
- **Survey:** 5 points in total for completion
- **Concept Inventory:** 5 points for completion
- **Initial Knowledge Check (ALEKS):** 10 points for completion
- **Second Knowledge Check (TBD, ALEKS):** 10 points for completion
- **Weekly Practices:** extra credits to max out clicker points

Laboratory

Lab Director: Dr. Roderick Black, 2021 Malott, 864-3481, rsblack@ku.edu

Laboratory:

Learning the proper laboratory skills is essential to being a successful chemist. You need to go to each lab prepared to do the assigned experiment. Read the experiment **before** you go to the laboratory and make sure you have some idea of what you need to do. Your laboratory Teaching Assistant will help you throughout each experiment. See separate website sheet for additional scheduling information. Students are required to pass an online safety examination before being allowed to participate in the laboratory experiments. More details will be given in class.

Laboratory Safety:

Follow the link to Safety Regulations for Chemistry Lab on the Chemistry Lab website, and review these Regulations often. Chemistry Department-approved **full-coverage goggles** must be worn at all times. If a student is found not wearing goggles at any time while laboratory work is being conducted anywhere in the room, this student will receive a warning or a grade penalty, and may be asked to leave the room. Laboratory students must wear **long pants**. It is not acceptable to wear shorts of any kind, Capri pants or intermediate-length pants of any kind, or skirts. Shoes must cover the entire foot. Open-toed shoes, open-heeled shoes, sandals, or shoes containing holes are not acceptable. (If a student's attire fails to meet these guidelines because of religious or cultural requirements, the student must contact the instructor in advance of the lab period.)

Useful University Policies

Withdrawal Policy:

Students adding classes or increasing credits will need the signature of the course instructor on the Schedule Change Form. Students should bring their completed forms to Enrollment & Financial Aid Services, 121 Strong Hall or the KU Visitor Center.

Recording of Lectures:

Video and audio recording of lectures and review sessions without the consent of the instructor is prohibited. On request, the instructor will usually grant permission for students to audio-tape lectures, on the condition that these audio tapes are only used as a study aid by the individual student making the recording. Unless explicit permission is obtained from the instructor, recordings of lectures and review sessions may not be modified and must not be transferred or transmitted to any other person, whether or not that person is enrolled in the course.

Commercial Note Taking:

Pursuant to the University of Kansas' Policy on Commercial Note-Taking Ventures, commercial note-taking is not permitted in CHEM 130. Lecture notes and course materials may be taken for personal use, for the purpose of mastering the course material, and may not be sold to any person or entity in any form. Any student engaged in or contributing to the commercial exchange of notes or course materials will be subject to discipline, including academic misconduct charges, in accordance with University policy. **Please note:** note-taking provided by a student volunteer for a student with a disability, as a reasonable accommodation under the ADA, is **not the same** as commercial note-taking and is **not** covered under this policy.

Notes on Academic Misconduct:

It is expected at the University of Kansas that students adhere to high standards of personal and scientific integrity. In scientific endeavors the same is also expected. Science cannot work without honest reporting of data and the proper attribution of authorship. The following statements are given as reminders of the expectations for this class and the labs:

"Cheating, or the appearance thereof, including giving or receiving help on an exam, looking at another student's paper while taking an exam, falsifying exam papers, using unauthorized materials, notes, crib sheets, or the equivalent, etc., faking laboratory data, reporting other people's results as your own, etc., are not acceptable and will be dealt with in accordance with published University regulations."

"Students who engage in disruptive behavior, including persistent refusal to observe boundaries defined by the instructor regarding inappropriate talking, discussions, and questions in the classroom or laboratory may be subject to discipline for non-academic misconduct for disruption of teaching or academic misconduct, as defined in the Code of

Student Rights and Responsibilities (CSRR).”

It is perfectly OK - and strongly to be encouraged - to study and work problems with others outside of class and to discuss lab procedures, results and interpretations with others, both during and outside of lab. It is essential, however, that the data you report *be yours and as you observed it and that all the write-ups are in your own words.*

Concealed Carry:

Individuals who choose to carry concealed handguns **are solely responsible to do so in a safe and secure manner in strict conformity with state and federal laws and KU weapons policy.** Safety measures outlined in the KU weapons policy specify that a concealed handgun:

- Must be under the constant control of the carrier.
- Must be out of view, concealed either on the body of the carrier, or backpack, purse, or bag that remains under the constant control of the carrier.
- Must be in a holster that covers the trigger area and secures any external hammer in an un-cocked position
- Must have the safety on, and have no round in the chamber.

Exam:

Instructors are allowed by Kansas Board of Regents policy, to require backpacks, purses and other bags be placed in the front of the classroom during exams and quizzes, and as such those items will not be under the constant control of the individual. Students who choose to carry a concealed handgun in a purse, backpack, or bag must review and plan each day accordingly, and are responsible for making alternate arrangements as necessary. The university does not provide appropriate secured storage for concealed handguns.

Individuals who violate the KU weapons policy may be asked to leave campus with the weapon and may face disciplinary action under the appropriate university code of conduct.

Lab:

This course takes place in spaces that will require students to leave belongings such as backpacks and purses away and unattended for the duration of class time. Students who choose to carry a concealed handgun in a purse, backpack, or bag must review and plan each day accordingly, and are responsible for making alternate arrangements as necessary. The university does not provide appropriate secured storage for concealed handguns.

Individuals who violate the KU weapons policy may be asked to leave campus with the weapon and may face disciplinary action under the appropriate university code of conduct.