Chemistry 1071H
Honors General Chemistry I Fall Semester, 2019

Instructor: Prof. Lee Penn
Smith Hall 225
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Our syllabus resides on our canvas website. Below is the text of the various pages.

MWF 9:05 am – 9:55 am in Bruininks Hall 412

The Course: This is a 3 credit course that meets for 42 class periods, 50 minutes each, during the 15 week semester. The main themes of Chemistry 1071 include an advanced introduction to atomic theory; periodic properties of the elements; behavior of gases, liquids, and solids; the first law of thermodynamics; molecular/ionic structure and bonding; aspects of organic chemistry, spectroscopy, polymers and energy sources. A student may ask, “Why is this course considered an important component of my liberal education?” A liberally educated person is one who can understand complex issues, find credible information, analyze that information, problem-solve, and draw reasonable conclusions based on facts. This course will develop these skills and help prepare you to be an informed citizen and life-long learner.

STUDENT HOURS -- (renamed because we usually end up in different rooms)

What happens during student (office) hours? First -- I take private questions/discussion starting in my office, which is Smith 225... and then we move to the bigger room and do a group homework problem solving session. We go around the room, and folks ask questions about problems on homework, problems during class, etc.... If we run out of class content to discuss, then we talk about other stuff, including research opportunities and yes -- the weather.... PLEASE COME!

MONDAY at 430p -- Smith Hall room 111

THURSDAY at 4p -- starting 12 September 2019

Cindy's student hours -- WEDNESDAY at 130-220p -- Bruininks 432

Cindy's quiz prep student hours -- WEDNESDAY 630-800p nights before quizzes - no longer TH -- Smith Hall 221

Prerequisite: Honors student or Honors Office permission. Inasmuch as this is an honors course, a certain amount of prior knowledge will be assumed, and the lecture material will begin with Chapter 5 of the text by Silberberg and Amateis. You should be familiar with the material covered in Chapters 1–4, and you are encouraged to read these chapters and do practice problems to test your readiness and refresh your memories; this material is fundamental to any continued study of chemistry and will be incorporated into the exams.

**Course Grading**
The final course grade will be determined by the combined performance on six quizzes and the final exam. Each of these will be weighted with the following percentages in the determination of the final grade:
Quiz Zero (practice quiz) = 4% (you get full credit for taking the quiz, regardless of your "score")
Quizzes 1-6 = 12% each
Final exam = 20%
Connect Homework = 4% (counting only your highest scoring attempt for each assignment)
Grade cutoffs:

90% and higher A
85% to the next A-
80% to the next B+
75% to the next B
70% to the next B-
65% to the next C+
60% to the next C
55% to the next C-
50% and higher D

Grading and Transcripts: The University uses plus and minus grading on a 4.000 cumulative grade point scale in accordance with the following:

A 4.000 Represents achievement that is outstanding relative to the level necessary to meet course requirements
A- 3.667
B+ 3.333
B 3.000 Represents achievement that is significantly above the level necessary to meet course requirements
B- 2.667
C+ 2.333
C 2.000 Represents achievement that meets the course requirements in every respect
C- 1.667
D+ 1.333
D 1.000 Represents achievement that is worthy of credit even though it fails to meet fully the course requirements
S Represents achievement that is satisfactory, which is equivalent to a C- or better.

For additional information, please refer to http://policy.umn.edu/education/gradingtranscripts Links to an external site.

Note: There are no extra credit assignments in CHEM 1071H.

Homework
For each chapter, a series of problems have been chosen to help you understand the concepts and practice the material. My experience teaching this course has shown me that students who practice problems do better! There are a lot of problems! What's listed in the table below
represents my recommendation for practicing chemistry problems. If you’re struggling, the best use of your time is to practice more problems! Come meet with me to talk about how to best spend your time if you feel unsure. I’m very happy to talk to you about study strategy etc.... Recommended problems can be found on the course website (text book problem numbers) AND through the online CONNECT system.

Connect system registration link: https://connect.mheducation.com/class/l-penn-fall-semester-2019 [Links to an external site.]

Your final connect homework average (counting only your highest scoring attempt for each assignment) will count as 4% of your final course grade.

Access to the complete solutions manual is available in the tutor room - located in room 124 Smith Hall.

Group work is not only acceptable but is encouraged! You are invited to work together on the CONNECT homework problems. However, students need to ensure that they can complete problems independently in preparation for quizzes and the final exam.

We will start lecture material with chapter 5.

If it's been a while since you've taken chemistry, refresh your knowledge of introductory material (chapters 1-4). The first homework assignment covers chapters 1-4. List of recommended book problems by chapter. What's listed here is my minimum recommendation for practicing chemistry problems. Many of these are covered by doing the connect homework.

Quizzes and Final Exam

Quizzes and the final exam will be administered through canvas. These instructions will be updated regularly. Check here for updates before every quiz please!

There will be one practice quiz, six "real" quizzes, and one Final exam

Exam Instructions/Requirements
Dates for quizzes and the final exam and instructions can be found on the course website. Instructions for setting up electronic proctoring – PROCTORIO – can be found on the course website.

Lecture Slides will be posted before class whenever possible.

Important Policies and Resources

Overlapping & Back-to-Back Courses: Enrolling in overlapping or back-to-back courses that does not allow enough travel time to arrive at our class meetings on time is prohibited. For more information, please see: http://policy.umn.edu/Policies/Education/Education/OVERLAPPINGCLASSES.html

Teaching & Learning -- Appropriate Student Use of Class Notes and Course Materials: The materials provided in this course are intended only for the students officially enrolled in this
section and are to be used to learn and practice the course material. Disseminating class notes, videos, exams, etc... beyond the classroom community or accepting compensation (in the form of cash or in trade, such as access to a study website) undermines instructor interests in their intellectual property while not substantially furthering instructor and student interests in effective learning. Such actions violate shared norms and standards of the academic community and are not allowed. For additional information, please see: http://policy.umn.edu/Policies/Education/Education/STUDENTRESP.html

**Student Conduct Code:** As a student at the University you are expected to adhere to Board of Regents Policy: Student Conduct Code. To review the Student Conduct Code, please see: [http://regents.umn.edu/sites/default/files/policies/Student_Conduct_Code.pdf](http://regents.umn.edu/sites/default/files/policies/Student_Conduct_Code.pdf).

**Scholastic Dishonesty:** The Board of Regents Student Conduct Code states that, "Scholastic dishonesty means plagiarizing; cheating on assignments or examinations; engaging in unauthorized collaboration on academic work; taking, acquiring, or using test materials without faculty permission; submitting false or incomplete records of academic achievement; acting alone or in cooperation with another to falsify records or to obtain dishonestly grades, honors, awards, or professional endorsement; altering, forging, or misusing a University academic record; or fabricating or falsifying data, research procedures, or data analysis." For additional information see the student conduct code at [http://regents.umn.edu/sites/default/files/policies/Student_Conduct_Code.pdf](http://regents.umn.edu/sites/default/files/policies/Student_Conduct_Code.pdf)

The Office for Student Conduct and Academic Integrity has compiled a useful list of Frequently Asked Questions pertaining to scholastic dishonesty: [http://www1.umn.edu/oscai/integrity/student/index.html](http://www1.umn.edu/oscai/integrity/student/index.html).

The policy in this course is **zero tolerance.** The minimum action taken in a case of scholastic dishonesty in any portion of the work in this course will be a grade of F for the course. Prof. Penn will absolutely make it clear when collaboration with other students is acceptable and even encouraged. Students are permitted and encouraged to work together on homework assignments, but students need to ensure they complete their online homework assignments and that they can work problems independently in preparation for the exams. Students may not collaborate on exams nor Friday quizzes.

**Incompletes:** Students that have an excused absence from the final exam AND are passing the course based on all the work completed prior to the final exam may be eligible to receive a grade of “I” in the course. If these criteria are met, contact the instructor as soon as circumstances allow to discuss the possibility of an incomplete grade and the associated requirements for completion.

**Student Mental Health and Stress Management:** As a student you may experience a range of issues that can cause barriers to learning, such as strained relationships, increased anxiety, alcohol/drug problems, feeling down, difficulty concentrating and/or lack of motivation. These mental health concerns or stressful events may lead to diminished academic performance or reduce a student’s ability to participate in daily activities. University of Minnesota services are available to assist you with addressing these and other concerns you may be experiencing. You can learn more about the broad range of confidential mental health services available on campus via [http://www.mentalhealth.umn.edu/](http://www.mentalhealth.umn.edu/).

**Sexual Harassment:** "Sexual harassment” means unwelcome sexual advances, requests for sexual favors, and/or other verbal or physical conduct of a sexual nature. Such conduct has the purpose or effect of unreasonably interfering with an individual’s work or academic performance or creating an intimidating, hostile, or offensive working or academic environment in any University activity or program. Such behavior is not acceptable in the University setting. For additional information, please consult Board of Regents Policy: [https://regents.umn.edu/sites/regents.umn.edu/files/policies/Sexual_Harassment_Sexual_Assault_Stalking_Relationship_Violence.pdf](https://regents.umn.edu/sites/regents.umn.edu/files/policies/Sexual_Harassment_Sexual_Assault_Stalking_Relationship_Violence.pdf). Links to an external site.
Equity, Diversity, and Equal Opportunity: The University policy on equity, diversity, and equal opportunity can be found at: http://regents.umn.edu/sites/default/files/policies/Equity Diversity EO AA.pdf.

Disability Accommodations (updated November 2019): The University of Minnesota views disability as an important aspect of diversity and is committed to providing equitable access to learning opportunities for all students. The Disability Resource Center (DRC) is the campus office that collaborates with students who have disabilities to provide and/or arrange reasonable accommodations. Please bring this to my attention as soon as possible so that I can ensure the appropriate accommodation is in place as soon as possible. I’m happy to discuss modifying accommodations at any time during the semester. Further information is available from the Disability Resource Center at 612-626-1333 (https://disability.umn.edu/Links to an external site.).

Use of Personal Electronic Devices in the Classroom: Using personal electronic devices in the classroom setting can hinder instruction and learning, not only for the student using the device but also for other students in the class. To this end, personal electronic devices are not to be used for non-class related activities during Chem 1071H. For complete information, please reference: http://policy.umn.edu/education/studentresp. Appropriate use of personal electronic devices includes (and is not limited to) taking notes on a personal laptop, looking up chemical information, performing numerical computation using a calculator, etc... Please save texting and social media for before and after class.

Academic Freedom and Responsibility: for courses that do not involve students in research
Academic freedom is a cornerstone of the University. Within the scope and content of the course as defined by the instructor, it includes the freedom to discuss relevant matters in the classroom. Along with this freedom comes responsibility. Students are encouraged to develop the capacity for critical judgment and to engage in a sustained and independent search for truth. Students are free to take reasoned exception to the views offered in any course of study and to reserve judgment about matters of opinion, but they are responsible for learning the content of any course of study for which they are enrolled.*

Reports of concerns about academic freedom are taken seriously, and there are individuals and offices available for help. Contact the instructor, the Department Chair, your adviser, the associate dean of the college, or the Vice Provost for Faculty and Academic Affairs in the Office of the Provost. * Language adapted from the American Association of University Professors "Joint Statement on Rights and Freedoms of Students".

Issues with your Instructor: On occasion you may have a concern or problem regarding this course. You will find your instructor quite willing to discuss this with you. If, however, you wish to discuss it with someone other than your instructor, please contact Prof. Michelle Driessen, the director of the general chemistry program. You may e-mail to her at mdd@umn.edu, call her directly at 612.624.0062, or meet with her in her office (Smith Hall 113). She will serve as a mediator in helping to resolve the issue.

Tutoring Information
Free Tutoring:
For students in the honors program, there will be weekly hours for chemistry specific tutoring available in the Terrace Room in Middlebrook Hall.
Specific hours and tutors will be posted on the Honors web site.
HONORS CHEMISTRY: Tuesdays, 7-9 pm in Middlebrook Room 132
Our Tutors’ contact information is available on the course website.
In addition, room 124 Smith Hall is the site of regular general chemistry drop-in tutorial hours conducted by TAs and open 10:00 am – 7:00 pm, M–F.

See the specific tutor hours schedule at: http://genchem.chem.umn.edu/honors/tutor-room-schedule

Connect system registration link: https://connect.mheducation.com/class/l-penn-fall-semester-2019

We will use CHIME IN for in class questions... Chimeln lets you answer questions with a laptop, a smartphone (iPhone, Android, etc), or via text messaging. If you think you'll be answering via text message, please register your cellphone number with Chimeln. To do so, go to http://chimein.cla.umn.edu, click "log in," and then click the "edit" link under your name in the upper right. You'll be asked to enter your cellphone number, and then you'll receive a text message from Chimeln with a four digit code. Enter that code into Chimeln, and you'll be all set. You only need to do this once, unless you change cellphone numbers.

To join our course chimein site: https://chimein2.cla.umn.edu/join/903815