Course Information for Chemistry 1128 – Summer 2022

Instructor: Edward J. Neth, Stamford Campus 3.63, (203) 251-9535, Edward.neth@uconn.edu
Course Web Site: http://huskyct.uconn.edu/

Meetings :	Z70	MTuW 9 :15 AM -12 :15 PM	Stamford 3.05
	Z70L	Lab : MTu 1 :10-4 :10 PM	Stamford 2.43

Course Needs:

1. Textbook*: *Chemistry: Atoms First*, 2nd Edition OpenStax 2019
3. Chem 101 access (see link in HuskyCT) – purchase from Chem 101 app (instructions on HuskyCT)
4. Laboratory experiment packets will be provided as PDFs
5. Calculator: You will need a calculator capable of doing scientific notation and logarithms. Graphing calculators are acceptable ***provided they are not used to store alphanumeric data.*** No cell phone, tablet or computer calculators.

*The **textbook is available free of charge in electronic format**; low-cost hardbound copies are also available from the bookstore or amazon.com. Kindle (free) and Apple Books ($6.99) editions are also available.

Office hours : Office hours are by arrangement or drop-in. I can also be available through my Webex site : **https://uconn-cmr.webex.com/meet/edn04001**

Attendance

You are expected to attend lecture and laboratory. Many times, announcements are made in lecture; you are responsible for these announcements. Both sessions are vital to the integrity of the course. **The in-class Chem 101 assignments are available only during class. They cannot be made up in case of absence.**

Lecture:

PLEASE READ the chapter and work through the material in the PowerPoint presentations before each class. Your attendance in class benefits you and everyone else! Classes will employ Chem 101 extensively*. Rather than a traditional lecture, these will be hybrid class/workshops. There will be opportunities for small-group interaction and interaction with the instructor, and interactive group and individual work. Homework assignments will be posted to Chem 101 with due dates. Available on HuskyCT are solutions to suggested problems from the text. While these will not be collected and graded, doing the problems is key to studying for exams and quizzes. You cannot succeed in science without extensive practice. If you are struggling with material, ask questions!

Academic Integrity

Cheating in any form and at any task will not be tolerated. The minimum consequence will be an F for the course. Please see The Student Conduct Code" available at http://dos.uconn.edu/

Student Support Services:

- Counseling and Mental Health Services: 203-251-9597
  http://counselingcenter.stamford.uconn.edu/ -- Room 213
- Career Services: http://careercenter.stamford.uconn.edu/
- Alcohol and Other Drug Services: 203-251-9597
  http://counselingcenter.stamford.uconn.edu/ -- Room 213
- Office of Student Support http://stamfordstudentlife.uconn.edu/

Final Course Grade:

Note that once the course grade has been issued, it can be changed ***only*** if a computational error is shown. Reconsideration of grades is after they are issued is not permitted by University Registrar policy. Course grades are discussed only in person – never over the phone or by email.

Extra Credit: Extra credit assignments are not possible.

Grade Appeals: **No grades will ever be sent by email, nor will grade appeals be handled by email or by telephone.** If you have a question about your grade, please see the instructor in person.

Grading:

Exams	55%
In-class work	5%
Laboratory	20%
Homework	20%
Total	100%

Master Schedule

Chemistry 1128 Summer 2022 University of Connecticut Stamford

Course website: http://huskyct.uconn.edu Instructor: Edward J. Neth

	Lab	Class
31-May	Safety, data analysis	Ch 10 Liquids and solids
1-Jun		Ch 10-11
6-Jun	Acid base/limiting reactant	Ch11 Solutions
7-Jun	Freezing point depression	Ch 12 Thermodynamics
8-Jun		Ch13 Equilibrium 1
13-Jun	Hardness of water	Exam1 (Ch 10-12)
14-Jun	Equilibrium constant	Ch13-14
15-Jun		Ch14 Acids and Bases
20-Jun	Solubility constant calcium hydroxide	Ch15 Solubility Equilibrium
21-Jun	Buffers	Ch15
22-Jun		Ch16 Electrochemistry
27-Jun	Galvanic cells	Exam 2 (Ch 13-15)
28-Jun	Electrolysis	Ch16
29-Jun		Ch17 Chemical Kinetics
5-Jul	Kinetics/iodination of acetone	Ch 17
6-Jul		Ch 20 Nuclear Chemistry
7-Jul		Final Exam (Ch 16-17, 20)

Notes on succeeding in chemistry

This is a quantitative course in a multi-dimensional subject. I have designed the course so that it is manageably broken into sections. As you may guess, keeping up with the work is a major key to unlocking success. The course material will build on itself, meaning that there is a cumulative nature to bear in mind as you work your way through the exercises, laboratory and exams. If you find you're having difficulty with specific topics, be sure to seek help immediately – the pace of a summer class is rapid and it is all too easy to fall behind.

Chem 101 is a real-time learning and assessment tool. It will be used extensively in class and for assessing course knowledge.

As the semester progresses, and questions or problems arise, be sure to ask! I can only help solve what I know about.

Laboratory:

Laboratory is an integral part of the course. All students (including those taking the course as pass/fail) must complete all of the experiments to pass the course.

Laboratory Reports

Laboratory reports will include the data collected during the laboratory and all calculations and data analysis done during and after the lab, together with answers to the post-lab questions. These will be posted to the assignment link on HuskyCT as a single PDF file, in many cases including the Excel workbook used to perform the calculations.

Note: Data sheets and laboratory reports must be submitted as a single PDF each (not as multiple PDFs, photographs, .pages, .numbers, etc. Excel worksheets must be submitted as original XLSX files (not as PDFs and not in other formats such as Google sheets, .numbers files, etc.).

There are many ways to convert reports to PDFs; Word can do the job natively. So too can free applications that allow you to use your cell phone to prepare PDF files (AdobeScan, CamScanner, etc.).

Course Policies:

- **Laboratory Safety**
  All students should follow all the safety rules in the laboratory including:
  - The use of appropriate clothing including closed shoes, long pants or long skirts.
  - No crop tops or spaghetti straps can be worn in the laboratory.
  - During the lab all students must wear protective goggles at all times.
    - Note: If a student removes his goggles a warning will be given to the student. If in a lab period three warnings are given, the student will be asked to leave the lab and a grade of zero will be given.
  - A short lab safety video is available on HuskyCT along with an accompanying quiz. You must take the quiz and score 100% (multiple attempts are permitted) before you can work in the lab.

- **Experiments:**
  The tentative schedule of experiments for this semester is provided below.
  To prepare for the laboratory you must:
  - Download and Save the Data Sheet onto your computer, using your name. For example: "John Smith Density Lab Report". You will want this to record the data during the video.
  - Some experiments will have pre-lab videos. These should be viewed the day before your laboratory session.
  - Attend the lab, where you will collect the data.
  - Finish the lab experiment report before the next laboratory session.
    - Upload the document as a pdf or word document (not as a google doc, picture, etc.)
    - All lab reports are due the night before (11:59 PM) the next week's lab section
    - Late lab reports are strongly discouraged and may result in point deductions.
    - During the lab period your instructor will be available to answer questions – please use this time wisely.

- **Laboratory Attendance:**

If you miss any combination of one laboratory and/or report without a legitimate, verified excuse you will be given a grade of F for the course. **Verification of absences will be required and instructor approval must be obtained.**

- **Laboratory Reports:**

All laboratory reports are due ***by end of day Thursday after the lab is completed.***

- **Grading:**
    - Late reports and workshops will be accepted late but may not receive full credit.
    - Any laboratory report submitted more than one week beyond its due date will be graded as a zero.