INTRODUCTION

General Chemistry II is a continuation of General Chemistry I. The course will cover many topics first introduced in Gen Chem I in more detail (e.g. acids/bases, redox, and solubility). New topics will include intermolecular forces, phase changes, liquids and solutions, colligative properties, solid-state chemistry, kinetics and mechanisms, equilibrium, entropy, voltaic cells, and nuclear chemistry. The material spans Chapters 10—17 and 19—21 in the textbook. Good study habits will be essential to your success. You will have to employ logic and critical thinking in order to solve a wide variety of problems.

IMPORTANT DATES

- Course meets in the room COB 103 on M,W,F from 9:05—10:00 am
- Midterm Exam Dates: Feb 13 (Wed), Mar 20 (Wed), Apr 17 (Wed)
- January 28 (Monday)—Census Date: Deadline for all registrations, schedule changes, and section changes.
- April 1 (Monday) – Last day to drop or withdraw from courses
- May 3 (Friday) -- Final Exam from 8:00 am—10:00 am (in the regular classroom)

TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Topic</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required &amp; Recommended/Course Requirements</td>
<td>2</td>
</tr>
<tr>
<td>Canvas/Exams/Final Exam, Make-ups</td>
<td>3</td>
</tr>
<tr>
<td>Grading, Grade Replacement/Study Tips/Online Homework and In-Class Exams,</td>
<td>4,5</td>
</tr>
<tr>
<td>Course Topics/ Resources/Tobacco Policy/Campus Carry Policy</td>
<td>6</td>
</tr>
<tr>
<td>University Policies</td>
<td>7</td>
</tr>
</tbody>
</table>
REQUIRED MATERIALS

*Chemistry: The Central Science, 14th Ed*
by Brown, Lemay, and Bursten

Textbook options
- hardcover ISBN: 9780134414232
- 3-ring binder ISBN: 9780134555638
- e-book ISBN:

Scientific calculator capable of exponents and logarithms
**Fancy, programmable calculators are permitted, but you must know how to use them.**

RECOMMENDED MATERIALS

*Student Guide*
ISBN: 9780134554075

*Solutions to Red Exercises*
ISBN: 9780134552231

Some kind of periodic table, these can be purchased or printed off the web.

COURSE REQUIREMENTS

- Prerequisites for this course: CHEM 1311 (Gen Chem I) and CHEM 1111 (Gen Chem I Lab).
- General Chemistry II Lab (CHEM 1112) is NOT part of this course. However, General Chemistry II Laboratory should be taken concurrently with this course. You cannot use this lecture course as part of your degree requirements without the corresponding laboratory course.
- The deadline for all registrations, schedule changes, and section changes (the “Census Date”) is Monday, January 28th. Please see the University Policies section at the end of this syllabus for more information regarding dropping class, grade replacement, etc.

**The last day to withdraw from the course is April 1st (Monday).** If you wish to drop the course, it is YOUR responsibility; failure to officially withdraw from the course will result in a grade of F. *If you are withdrawing from this course, you are encouraged, but not required to, withdraw from the laboratory course (CHEM 1112) and vice versa.* Your lab instructor is not responsible for catching you up on lecture material you missed.
ONLINE CONTENT

I will communicate with you in class and through Canvas:

- lecture slides will be posted prior to the lecture. (You may want to print them out and bring them to class. Having these notes isn’t a substitute for attending lecture.)
- exam dates and homework due dates
- links to video tutorials and other helpful information

Please monitor the email account you have on Canvas for all announcements and postings.

You are automatically enrolled in all classes you are registered in. Not all instructors use Canvas, but the course will still appear on your home page.

IN-CLASS EXAMS

- The regular exam dates listed on page 1 are tentative (the final exam date/time is fixed).
- At least one week’s notice will be given prior to the exam. Regular exams will be mostly multiple-choice with 1-2 short answer/calculation questions. They will cover material discussed in lecture AND from assigned reading in the text. You are responsible for the assigned reading even if it has not been discussed during lecture!
- You are required to bring a pencil and a scientific calculator. One 3½” x 5” note card, both sides is permitted (no photocopies or printed materials!). No other materials, including cell phones and smart watches, are permitted!
- I will provide scantrons and scratch paper for calculations.
- Exams start promptly at 9:05 am and you must finish by 10:00 am. We will then take a break and continue with lecture afterwards.
- When finished please turn in your exam, scantron, note card, and scratch paper.
- I will do my best to return everything by the next class period. I do make mistakes from time to time. If you think that I made a grading error, please see me within one week after taking the exam. All scores are considered final one week after grades are posted on Canvas!

Cell phones and smart watches/electronic devices must be put away during exams. If they are observed out in a visually accessible place (i.e. between legs, on the floor, etc.), it will be assumed that they are being used to cheat and your exam will taken, you will receive a zero score (0 points) for the exam, and you will be referred to the Office of Judicial Affairs.

FINAL EXAM AND MAKE-UP POLICY

- The final examination will be given on (and only on) Friday, May 3rd, from 8 am – 10 am in our regular classroom. You are required to take the final examination in order to receive a passing grade in the course. There will be no make-up of the final exam, no exceptions!
- The comprehensive final examination is a nationally standardized exam written by the American Chemical Society and covers material from both general chemistry 1 and 2 (70 multiple-choice questions). The questions are not particularly hard, but there are A LOT of them.
- Missed exams will be handled according to one of the two following methods:
  - If you know that you will miss an exam due to an excused absence, then you can take the exam early. To do so you must give me at least one-week notice. You will not be allowed to take the exam after the scheduled exam date, so, plan ahead if you know you will be absent. For any unplanned absence, such as illness, car-trouble, funeral, etc. the final exam will replace the exam you missed. No exams will be given after the scheduled dates.
  - Missing a second exam will require a special meeting with me to determine the appropriate action. Such an action may include, but is not limited to withdrawing from the course.
- If you have any questions regarding these policies, please ask me.
**GRADING SCALE**

Grades will tentatively be assigned on a 90/80/70/60 scale, but may be adjusted based upon my evaluation of the overall class performance. Attendance, class participation, and initiative will be considered for borderline grades. Grades will be posted on Canvas* and weighted as follows:

- 4 midterm exams: 40% (10% for each exam)
- Homework: 20%
- Quizzes: 20%
- Final Exam: 20%
- **Total:** 100%

*The OFFICIAL grade book is the Excel file on my computer (in the event of typos/mistakes).

**EXAM GRADE REPLACEMENT**

- If you have four or fewer unexcused absences, I will replace your lowest exam score with your final exam score if your final exam score is higher. (If the final exam score is the lowest score, then no grade will be replaced.)
- Only one score can be replaced.
- As an example, if your exam scores are 60, 75, 80, and 85 with a 70 on the final, your final grade would be calculated based on the scores 70, 75, 80, 85 and 70 in which the first exam score of 60 was replaced with the 70.

**ONLINE HOMEWORK—SAPLING LEARNING**

Homework will regularly be assigned for you to complete outside of the lecture class time. It is very important that you complete such homework assignments in a timely manner. **All online homework problems accessed through the Sapling Learning website, count as 20% of your total course grade.**

To access the online homework complete the following steps:

Follow the Sapling Learning link from your instructor's course page.

For initial registration, your Sapling Learning homework must be accessed through that link. After logging in once using this link, you can log in to subsequent sessions from your instructor's course page or from the Sapling home page.

If you already have a Sapling account, enter your username and password in the login box. If the login box is disabled, scroll down to the Create an Account portion of the page, fill in the missing info and click Create My Account.

You've been automatically enrolled into the appropriate homework course on Sapling Learning and will be directed to your course page.

Review the [system requirements](#) and confirm that Flash is updated and enabled in your browser.

**QUIZZES**

**Quizzes** will be given most days in class. Some will be given at the beginning of class and will be over material covered the previous class. Some quizzes will be given at the end of class and will be over material covered that same day in class. These quizzes will be short 1-3 question quizzes. I will drop your two lowest quiz scores at the end of the semester.
COURSE TOPICS

<table>
<thead>
<tr>
<th>topic</th>
<th>chapter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gases</td>
<td>CHAPTER 10</td>
</tr>
<tr>
<td>Liquids and Intermolecular Forces</td>
<td>CHAPTER 11</td>
</tr>
<tr>
<td>Solids and Modern Materials</td>
<td>CHAPTER 12</td>
</tr>
<tr>
<td>Properties of Solutions</td>
<td>CHAPTER 13</td>
</tr>
<tr>
<td>Chemical Kinetics</td>
<td>CHAPTER 14</td>
</tr>
<tr>
<td>Chemical Equilibrium</td>
<td>CHAPTER 15</td>
</tr>
<tr>
<td>Acid-Base Equilibria</td>
<td>CHAPTER 16</td>
</tr>
<tr>
<td>Additional Aspects of Aqueous Equilibria</td>
<td>CHAPTER 17</td>
</tr>
<tr>
<td>Chemical Thermodynamics</td>
<td>CHAPTER 19</td>
</tr>
<tr>
<td>Electrochemistry</td>
<td>CHAPTER 20</td>
</tr>
<tr>
<td>Nuclear Chemistry</td>
<td>CHAPTER 21</td>
</tr>
</tbody>
</table>

STUDY TIPS

- **Study, study, study!** Chemistry requires you to **read, review** and **practice** (5-2 hours per hour of lecture is typical).
- **Don’t “brain-dump” after an exam**, you will continue to build upon and use information throughout the semester.
- **Form study groups**, there are some smart students at UT Tyler, get to know them. Also, teaching a topic to someone else is a great way to reinforce that topic.
- **Attend class.**
- **Once you are in class, participate! (Facebook will not help you in this course!)**
- **Work practice problems I suggest from the end of the chapter**, they will be similar to, but not exactly the same, as exam questions.
- If you get behind, **do not be afraid to get help!** Take advantage of my office hours, review sessions, tutorial videos, and/or hire a tutor.
OTHER STUDENT RESOURCES

- Enrollment Services Center (ADM 230) is where you add/change majors, add or drop classes or get financial aid help. (They are very busy during the first couple of weeks of the semester and around the “drop date” so please cut them some slack during those times. Faculty and staff get stressed too!)
- Student Counseling Center ([www.uttyler.edu/counseling](http://www.uttyler.edu/counseling))
  Dealing with stress/anxiety, improving study skills, time management, etc (all confidential)
- UT Tyler Student Health and Wellness ([www.uttyler.edu/wellness](http://www.uttyler.edu/wellness))
  Substance abuse, household violence, good eating habits, etc.
- The Writing Center ([www.uttyler.edu/writingcenter](http://www.uttyler.edu/writingcenter))
  Helps you learn how to write better.
- Student Life ([www.uttyler.edu/admissions/studentlife](http://www.uttyler.edu/admissions/studentlife))
  Clubs, Greek system, recreational sports, service opportunities, etc.

UNIVERSITY TOBACCO POLICY

All forms of tobacco will not be permitted on the UT Tyler main campus, branch campuses, and any property owned by UT Tyler. This applies to all members of the University community, including students, faculty, staff, University affiliates, contractors, and visitors.

Forms of tobacco not permitted include cigarettes, cigars, pipes, water pipes (hookah), bidis, kreteks, electronic cigarettes, smokeless tobacco, snuff, chewing tobacco, and all other tobacco products.

UNIVERSITY CAMPUS CARRY POLICY

“We respect the right and privacy of students who are duly licensed to carry concealed weapons in this class. License holders are expected to behave responsibly and keep a handgun secure and concealed. More information is available at [http://www.uttyler.edu/about/campus-carry/index.php](http://www.uttyler.edu/about/campus-carry/index.php).”
UNIVERSITY POLICIES

Students Rights and Responsibilities
To know and understand the policies that affect your rights and responsibilities as a student at UT Tyler, please follow this link:
http://www.uttyler.edu/wellness/rightsresponsibilities.php

Grade Replacement/Forgiveness and Census Date Policies
Students repeating a course for grade forgiveness (grade replacement) must file a Grade Replacement Contract with the Enrollment Services Center (ADM 230) on or before the Census Date of the semester in which the course will be repeated. Grade Replacement Contracts are available in the Enrollment Services Center or at http://www.uttyler.edu/registrar. Each semester’s Census Date can be found on the Contract itself, on the Academic Calendar, or in the information pamphlets published each semester by the Office of the Registrar.
Failure to file a Grade Replacement Contract will result in both the original and repeated grade being used to calculate your overall grade point average. Undergraduates are eligible to exercise grade replacement for only three course repeats during their career at UT Tyler; graduates are eligible for two grade replacements. Full policy details are printed on each Grade Replacement Contract.
The Census Date is the deadline for many forms and enrollment actions that students need to be aware of. These include:
- Submitting Grade Replacement Contracts, Transient Forms, requests to withhold directory information, approvals for taking courses as Audit, Pass/Fail or Credit/No Credit.
- Receiving 100% refunds for partial withdrawals. (There is no refund for these after the Census Date)
- Schedule adjustments (section changes, adding a new class, dropping without a “W” grade)
- Being reinstated or re-enrolled in classes after being dropped for non-payment
- Completing the process for tuition exemptions or waivers through Financial Aid

State-Mandated Course Drop Policy
Texas law prohibits a student who began college for the first time in Fall 2007 or thereafter from dropping more than six courses during their entire undergraduate career. This includes courses dropped at another 2-year or 4-year Texas public college or university. For purposes of this rule, a dropped course is any course that is dropped after the census date (See Academic Calendar for the specific date).
Exceptions to the 6-drop rule may be found in the catalog. Petitions for exemptions must be submitted to the Enrollment Services Center and must be accompanied by documentation of the extenuating circumstance. Please contact the Enrollment Services Center if you have any questions.

Disability/Accessibility Services
In accordance with Section 504 of the Rehabilitation Act, Americans with Disabilities Act (ADA) and the ADA Amendments Act (ADAAA) the University offers accommodations to students with learning, physical and/or psychological disabilities. If you have a disability, including non-visible a disability diagnosis such as a chronic disease, learning disorder, head injury or ADHD, or you have a history of modifications or accommodations in a previous educational environment you are encouraged to contact the Student Accessibility and Resources office and schedule an interview with an Accessibility Case Manager. If you are unsure if the above criteria applies to you, but have questions or concerns please contact the SAR office. For more information or to set up an appointment please visit the SAR webpage (http://www.uttyler.edu/disabilityservices/) or the SAR office located in the University Center, Room 3150 or call 903.566.7079. You may also send an email to saroffice@uttyler.edu.

Student Absence due to Religious Observance
Students who anticipate being absent from class due to a religious observance are requested to inform the instructor of such absences by the second class meeting of the semester.

Student Absence for University-Sponsored Events and Activities
If you intend to be absent for a university-sponsored event or activity, you (or the event sponsor) must notify the instructor at least two weeks prior to the date of the planned absence. At that time the instructor will set a date and time when make-up assignments will be completed.

Social Security and FERPA Statement:
It is the policy of The University of Texas at Tyler to protect the confidential nature of social security numbers. The University has changed its computer programming so that all students have an identification number. The electronic transmission of grades (e.g., via e-mail) risks violation of the Family Educational Rights and Privacy Act; grades will not be transmitted electronically.

Emergency Exits and Evacuation:
Everyone is required to exit the building when a fire alarm goes off. Follow your instructor’s directions regarding the appropriate exit. If you require assistance during an evacuation, inform your instructor in the first week of class. Do not re-enter the building unless given permission by University Police, Fire department, or Fire Prevention Services.