CHEM 1305: General Chemistry I
Course Syllabus: Summer 2023

Course Information
Mondays, Tuesday, Wednesdays, Thursdays, and Fridays 8:10 AM – 10:20 AM
Undergraduate Learning Center, UGLC 346

Instructor Information

<table>
<thead>
<tr>
<th>Instructor</th>
<th>Undergraduate Learning Assistants</th>
</tr>
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<tbody>
<tr>
<td>Dr. Elizabeth Day (she/her)</td>
<td>Contact Info on Blackboard</td>
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<tr>
<td><a href="mailto:elday@utep.edu">elday@utep.edu</a></td>
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How to Contact Me
Email is the best way to reach me. Please allow me 48 hours to respond, and then send a polite reminder. If you send me a message through Blackboard, I won’t see it.

To expedite a response, please put “CHEM 1305: [topic of email]” in the subject line

Dr. Day’s office: CCSB 2.0114
Student drop-in hours: online by appointment, or Wednesdays from 2 – 4 PM in my office

Course Description
The UTEP course catalogue describes this course as an overview of the basic laws and theories of chemistry, as well as characterization of the elements and their most important compounds. The course content will explore the foundations of atomic/molecular structure and its relationship to physical and chemical properties of substances, the electrostatic interactions that govern reactivity within and between molecules as well as the accompanying energy changes that drive reactions. These fundamental ideas will intersect with the skills of nomenclature, using mathematical models and evidence to characterize and monitor these atomic/molecular phenomena, and using theories of chemical bonding as models for explaining and predicting this atomic/molecular behavior.

This course is the first in a sequence of General Chemistry for scientists, engineers, and pre-medical/pre-health professionals. The expectation is that learners enrolled in this course need a foundation for work in advanced chemistry and related sciences.

Prerequisites: MATH 1410 or MATH 1508 or a math SAT score of at least 600; if required in student’s degree plan, CHEM 1105. MATH 1508 and/or CHEM 1105 may be taken concurrently with CHEM 1305.

This course does NOT have a workshop component. Instead of peer leaders and workshop, undergraduate learning assistants will be available in-class to help facilitate activities. Because of the fast-paced nature of this summer course and the active learning pedagogy, this section is offered in-person only and will not be recorded. This course is a co-requisite but separate course from General Chemistry 1 Laboratory (CHEM 1105).
Course Learning Objectives

Learners in this course will be actively engaged in:

- Explaining and using scientific models of how the existence of atoms leads to the conservation of matter.
- Using appropriate scientific models and theories to predict and explain chemical and physical phenomena.
- Constructing and using these models of chemical species to predict chemical and physical properties.
- Explaining how and why the atomic-molecular structure determines the properties of a substance, as well as the reverse, how a substance’s properties can be attributed to features of its atomic/molecular structure.
- Predicting and explaining the energy changes associated with the interactions of atoms, molecules, and ions.
- Applying systems thinking to both the molecular and macroscopic systems.

Each unit within the course (generally corresponding to the chapters in the associated textbook) will have more specific learning objectives to align our activities with the above overarching course learning objectives.

Required Learning Materials

This course will use the curriculum *CLUE: Chemistry, Life, the Universe, and Everything*. The textbook is provided as an open educational resource (OER) at no charge to learners. An online copy is available here and a PDF version will be uploaded to the learning management system Blackboard. **There is NO other textbook or workbook for this course.**

In-class activities will use the iClicker response management system. This is at no cost to learners, but you will need a phone, tablet, or laptop with Internet or SMS capabilities to respond to the prompts. You will need a non-programmable calculator for completing calculations.

Homework assignments and course activities will be provided and administered through Blackboard. Microsoft Office products are needed to complete these activities. Please see the technology section for more information on how to obtain these UTEP-provided services.

The final exam will be online, proctored exams provided by the instructor. Each week there will be an online quiz to cover the previous week’s material. The quizzes and the final exam will be comprehensive to material covered in the course and reflect the in-class and homework activities.

Please keep in mind: all materials used in this course are protected by copyright law. Course lecture slides, notes, assignments, and assessments are only for the use of learners currently enrolled in this course, and only for the purpose of this course, and may not be further disseminated.

Course Evaluation

This table designates the corresponding letter grade for a range of the percentage of points earned in the course.
Grading Scheme

<table>
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<tr>
<th>Below 60</th>
<th>60 – 69.9</th>
<th>70 – 79.9</th>
<th>80 – 89.9</th>
<th>90 – 100</th>
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<tbody>
<tr>
<td>F</td>
<td>D</td>
<td>C</td>
<td>B</td>
<td>A</td>
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Note: Learners need to obtain a grade of C or better to pass this class.

“Classes dropped prior to the official census date of any term will be deleted from the student’s semester record.” This term’s census date is June 14th. After this date, the University permits any student to drop with an automatic “W” until the final day withdraw. The final day to withdraw from this class is June 27th. No requests for a withdrawal will be approved after that date, and students who withdraw after this date must receive grades of “F”.

The following table broadly outlines the components that contribute to your course grade. This scheme is subject to revision as need be and with posted announcements of changes. Extra credit opportunities will be announced in class and on Blackboard, with those earned extra credit points added to the final point total at the end of the semester.

**Distribution of Points**

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<tr>
<th>Course Component</th>
<th>Percent of Points</th>
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<tr>
<td>Weekly Homework</td>
<td>15%</td>
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<tr>
<td>Lecture Activities</td>
<td>45%</td>
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<tr>
<td>Four Weekly Quizzes</td>
<td>25%</td>
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<tr>
<td>Final Exam</td>
<td>15%</td>
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Homework assignments will be activities assigned through Blackboard. Learners are expected to give an honest and thoughtful attempt on all assignments and follow assignment instructions. Homework assignments are expected to be completed as an individual effort.

Attendance and engagement are critical to stay on track with the activities and ways of thinking expected of learners in this class. This grade will encompass both in-class worksheets and response to iClicker prompts; it is intended to keep track of attendance and the level of participation/engagement of a learner in these spaces. Activities within the lecture course will be provided and completed as small groups. Only one in-class worksheet may be dropped.

This course will have four online quizzes covering the unit material. It is expected that ideas and ways of thinking from the beginning of the course will be used. The final exam will be an online, proctored multiple choice exam.

**Policies**

**Community Agreement**

The expectation in this course is that learners participate in course activities and discussions with mutual respect. Participation in this course—whether as an individual or within team-based activities—will be expected to follow our mutually-agreed framework for how we would like to be treated by one another in this course. Examples of my expectations would be offering undivided attention to the person speaking, claiming and distinguishing our opinions, sensitivity to sociocultural context, and disagreement without disrespect.
Absences
Because of the active learning pedagogy, synchronous in-person attendance is required. After 3 unexcused absences you will be asked to meet with Dr. Day. After the 4th unexcused absence, you may be dropped from the course. If your absence is necessary, please contact Dr. Day ahead of time to discuss.

Tardiness
If you are arriving late for the daily in-class session, please enter quietly, and you will be responsible for completing that day’s worksheet by yourself. If you are 10 or more minutes late for class, points may be subtracted from your daily attendance score.

Missed Assignments & Deadlines
Quizzes, homework, and in-class assignments cannot be made up without an excused absence. Some deadlines may be extended with an excused absence from Dr. Day. Please see Dr. Day to verify the excused absence properly.

Class Recordings
This use of technology is governed by the Federal Educational Rights and Privacy Act (FERPA) and UTEP’s acceptable-use policy. Storage of recordings of class sessions will be stored by UTEP in accordance with FERPA and UTEP’s policies; subject to Institutional Review Board (IRB) permission, recordings may be used for research purposes. However, unauthorized sharing of these class recordings may result in disciplinary action.

Technology
Course content is delivered via the Internet through the Blackboard learning management system. Ensure your UTEP e-mail account is working and that you have access to the Web and a stable web browser. Google Chrome and Mozilla Firefox are the best browsers for Blackboard; other browsers may cause complications. When having technical difficulties, update your browser, clear your cache, or try switching to another browser.

If you do not have word-processing software, you can download Word and other Microsoft Office programs (including Excel, PowerPoint, Outlook and more) for free via UTEP’s Microsoft Office Portal. Click the following link for more information about Microsoft Office 365 and follow the instructions.

IMPORTANT: If you encounter technical difficulties beyond your scope of troubleshooting, please contact the UTEP Help Desk as they are trained specifically in assisting with technological needs of learners. Please do not contact me for this type of assistance. The Help Desk is much better equipped than I am to assist you!

Learner Conduct
Class Environment
Cell phones must be on vibrate, but ideally placed in Do Not Disturb/Airplane mode. Use of cell phones for personal business rather than class work may result in points docked from your attendance score for that day. Each student is responsible for notice of and compliance with the provisions of the Regents’ Rules and Regulations. Use of laptops and tablets are allowed only when specifically requested by the instructor.
**Academic Dishonesty**
Academic dishonesty is prohibited and is considered a violation of the UTEP Handbook of Operating Procedures. It includes, but is not limited to, cheating, plagiarism, and collusion. Cheating may involve copying from or providing information to another student, possessing unauthorized materials during a test, or falsifying research data on laboratory reports. Plagiarism occurs when someone intentionally or knowingly represents the words or ideas of another as one's own. Collusion involves collaborating with another person to commit any academically dishonest act. Any act of academic dishonesty attempted by a UTEP student is unacceptable and will not be tolerated. All suspected violations of academic integrity at The University of Texas at El Paso must be reported to the Office of Student Conduct and Conflict Resolution (OSCCR) for possible disciplinary action. To learn more, please visit HOOP: Student Conduct and Discipline.

**Plagiarism**
“Plagiarism” means the appropriation of another person's ideas, processes, results, or words without giving appropriate credit. This includes intentionally, knowingly, or carelessly presenting the work of another as one’s own; failing to credit sources used in a work product; attempting to receive credit for work performed by another; failing to cite the World Wide Web, databases, and other electronic resources. Written work will be checked for plagiarism. Use of Artificial Intelligence (AI), Language Learning Models (LLMs), or other content-generators is prohibited.

All course materials are protected by copyright law. As such, do not copy course materials—assignments, homework or exam questions, or answers—to any publicly accessible website (such as Chegg or other "study" websites). Not only is this a violation of copyright law and UTEP policy, but the quality of “answer” those websites generate is so obviously wrong that it’s not worth the keystrokes to copy/paste.

**Learners with Disabilities Policy**
The University is committed to providing reasonable accommodations and auxiliary services to students, staff, faculty, job applicants, applicants for admissions, and other beneficiaries of University programs, services and activities with documented disabilities in order to provide them with equal opportunities to participate in programs, services, and activities in compliance with sections 503 and 504 of the Rehabilitation Act of 1973, as amended, and the Americans with Disabilities Act (ADA) of 1990 and the Americans with Disabilities Act Amendments Act (ADAAA) of 2008. Reasonable accommodations will be made unless it is determined that doing so would cause undue hardship on the University. Students requesting an accommodation based on a disability must register with the UTEP Center for Accommodations and Support Services (CASS). Contact the Center for Accommodations and Support Services at 915-747-5148, or email them at cass@utep.edu, or apply for accommodations online via the CASS portal.

**COVID-19 Policy**
Please stay home if you (1) have been diagnosed with COVID-19, or (2) are experiencing COVID-19 symptoms. If you are feeling unwell, please let me know as soon as possible, and alternative instruction will be provided. The Student Health Center is equipped to provide COVID 19 testing.

The Center for Disease Control and Prevention recommends that people in areas of substantial or high COVID-19 transmission wear face masks when indoors in groups of people. The best way that Miners can take care of Miners is to get the vaccine. If you still need the vaccine, it is
widely available in the El Paso area, and will be available at no charge on campus during the first week of classes. For more information about the current rates, testing, and vaccinations, please visit epstrong.org

**Learner Resources**

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<tr>
<th>Resource</th>
<th>Contact Information</th>
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<tr>
<td>Emergency Aid for UTEP Students: The Dean of Students Office has several emergency aid programs for students. Please visit their website to see a full list.</td>
<td><a href="https://www.utep.edu/student-affairs/dean-of-students-office/emergencyaid/">https://www.utep.edu/student-affairs/dean-of-students-office/emergencyaid/</a> <a href="mailto:DOS@utep.edu">DOS@utep.edu</a> 915-747-5648</td>
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<tr>
<td>Other resources for UTEP students</td>
<td><a href="https://www.utep.edu/student-affairs/resources/index.html">https://www.utep.edu/student-affairs/resources/index.html</a></td>
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<tr>
<td>UTEP Food Pantry</td>
<td>Memorial Gym, Room 105 915-747-7452 <a href="mailto:foodpantry@utep.edu">foodpantry@utep.edu</a></td>
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<tr>
<td>Kelly Center for Hunger Relief</td>
<td>915 N. Florence St. El Paso, TX 79902 915-261-7499 <a href="https://facebook.com/915kmfp">https://facebook.com/915kmfp</a></td>
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<td>UTEP Student Support Services for Challenges with Finances (FHAR)</td>
<td>Academic Advising Center 915-747-5290</td>
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<tr>
<td>UTEP Counseling and Psychological Services</td>
<td>Union West, Room 202 915-747-5302 After Hours Crisis Line: 915-747-5302 <a href="http://sa.utep.edu/counsel">http://sa.utep.edu/counsel</a></td>
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<tr>
<td>UTEP Student Health Center</td>
<td>915-747-5624 <a href="https://www.utep.edu/chs/shc">https://www.utep.edu/chs/shc</a></td>
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<td>Campus Advocacy, Resources, and Education (CARE): advocacy and counseling for students who are victims of a crime or secondary victims. These services may be extended to the students' support system. A victim of a crime is a person who has suffered physical, sexual, financial, and/or emotional harm because of the commission of a crime.</td>
<td>1101 N. Campbell Building, Room 103 915-747-7452 <a href="mailto:care@utep.edu">care@utep.edu</a> <a href="https://www.utep.edu/care">https://www.utep.edu/care</a></td>
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<tr>
<td>Center Against Sexual and Family Violence</td>
<td>580 Giles Road El Paso TX 915-593-7300 24/7 Crisis Hope Line: 1-800-727-0511</td>
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<tr>
<td>UTEP Writing Center</td>
<td>Library Building, Room 227 915-747-5112 <a href="http://uwc.utep.edu">http://uwc.utep.edu</a></td>
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If you would like other resources or assistance accessing any of these resources, please contact Dr. Day.

**Syllabus Change Policy**
This syllabus is a guide for the course and is subject to change without advance notice.