



UNIVERSITY OF NORTHERN COLORADO

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## Extended Campus

College of Natural & Health Sciences  
Department of Chemistry & Biochemistry

UNC Dual Enrollment at Bennett High School

CHEM 111-673 Principles of Chemistry I (4 credits; LAC, gtP\*)  
Spring 2021

Mrs. Jennifer Goodnight

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Office Hours: TBD

### Catalog Description:

Atomic Theory, mole concept, stoichiometry, states of matter, formulas, nomenclature, periodicity, bonding and solutions.

**Course Description:** This course explores the concepts of general chemistry. Topics include, but are not limited to, atomic theory, mole concept, stoichiometry, states of matter, formulas, nomenclature, periodicity, bonding and solutions. Laboratory experience is offered about once per week. This course will be equivalent to a college level chemistry class for science majors. The grading and workload will match as closely as possible as the UNC chemistry class.

### Required Resources:

- 1) Text Book: Chemistry by Chang and Goldsby 12th Ed ISBN-13: 978-0078021510
- 2) Calculator: A scientific calculator is required. You may not use your phone as a calculator.
- 3) Binder: A three-ring binder is required to keep your notes in an organized fashion.

### General Course Outline:

Chapter 1-Chemical Foundations

Chapter 2-Atoms, Molecules, and Ions

Chapter 3-Stoichiometry

Chapter 4-Types of Chemical Reactions and Solution Stoichiometry

Chapter 6-Thermochemistry

Chapter 7-Atomic Structure and Periodicity

Chapter 8-Bonding: General Concepts

Chapter 9-Covalent Bonding: Orbitals

Chapter 5-Gases

### Grading:

Exams	50%
Quizzes	15%

Homework/In-Class work	20%
*Final Exam	15%

\*Note: Final Exam is the ACS Exam.

### Grading Scale:

A	90-100%
B	80-89%
C	70-79%
D	60-69%
F	0-60 %

### Exam Outline:

Exam #1: Covers Chapters 1 and 2

Exam #2: Covers Chapter 3 and 4

Exam #3: Covers Chapters 6 and 7

Exam #4: Covers Chapters 8 and 9

Exam #5: Covers Chapter 5

Final Exam

### Make-up Policy:

**Exams-** There are no make-up exams! If you miss an exam due to documented illness, you need to make an appointment (ASAP) to see me and work out a plan for grade replacement.

**Homework-** There are no make-up homework assignments! A missed homework deadline counts as zero points.

**Quizzes-** There are no make-up quizzes! A missed quiz will count as zero points. If you know you will be missing a quiz, you must communicate with me ahead of time.

**Electronic Devices** - The use of cell phones, calculators, computers, iPods, Pagers, etc is NOT permitted in class (this includes texting, streaming, playing music, or playing pokemon go, etc). Given that the information we will cover in class requires your skill in drawing and calculations, use of an electronic device will inhibit your success. Therefore, please leave your electronic devices in your backpack in Airplane mode or turned off. It is better to just leave them at home. **If an electronic device is found out of your backpack/book bag/pocket/etc during an exam or quiz, you will receive a zero on that quiz or exam.** Students are not permitted to videotape, record, or take pictures of the instructor or the material during lecture without prior approval from the instructor.

**NOTE:** You are **NOT** allowed to use your phone as a calculator.

### Suggestions for Study:

**Lecture Attendance:** An important aspect of General Chemistry is that it is very cumulative, with each new topic building upon and using concepts developed in the previous one. Because of this close interrelationship of topics, this is not a course in which it is possible to learn some topics but ignore others. Falling behind is difficult (at best) from which to recover. It is imperative that you attend every lecture in order to stay on top if the material.

**Work the Problems:** There are no shortcuts here, working problems is the only way to learn General Chemistry. The in-chapter problems throughout the textbook provide immediate practice. Follow along with these as we complete progress through the text. A discussion of the problem and advice on how to do problems of the same type are offered in the Study Guide and in the textbook. The *additional* or *end-of-chapter problems* provide both additional drill as well as some real challenges. Those that do all of the textbook problems and all of the homework problems by writing them out on paper tend to achieve higher marks on exams and quizzes

(sometimes the problems even show up on the exams). In short, do not think you know the answers, do the problems and find out.

Collaboration is permitted and encouraged when working on in-class problems.

**Cheating on any quiz or exam will result in a grade of zero and possible dismissal from the course.**

**Students with Disabilities-** Any student requesting disability accommodation for this class must inform the instructor giving appropriate notice. Students are encouraged to contact the Bennett High School counseling office to certify documentation of disability and to ensure appropriate accommodations are implemented in a timely manner.

### **UNC Policies:**

**Honor Code-** All members of the University of Northern Colorado community are entrusted with the responsibility to uphold and promote five fundamental values: Honesty, Trust, Respect, Fairness, and Responsibility. These core elements foster an atmosphere, inside and outside of the classroom, which serves as a foundation and guides the UNC community's academic, professional, and personal growth. Endorsement of these core elements by students, faculty, staff, administration, and trustees strengthens the integrity and value of our academic climate. For more information, refer to the Dean of Students' website: <http://www.unco.edu/dean-of-students/>.

**\*Liberal Arts Core & Colorado gtPathways.** This course satisfies 4 credits of Area 6 (Physical & Life Sciences) of the UNC Liberal Arts Core. This course has been approved by the Colorado Commission on Higher Education for inclusion in the Colorado Guaranteed Transfer Program, gtP. gtP courses automatically transfer to any public institution in Colorado and will continue to count toward general education or other graduation requirements for any liberal arts or science associate or bachelor's degree program If a grade of C or higher is recorded. Statewide articulation agreements prescribe specific general education and degree requirements in the following professional degree programs: business, early childhood, elementary education, engineering and nursing. Most other courses not approved for the gtP designation will also be accepted in transfer by other institutions but may not fulfill general education or degree requirements.

### **Dropping or Withdrawing from a UNC Dual Credit Course**

**Note:** Drop and withdrawal dates for the courses at your school can be found on your [dual enrollment page for your high school](#).

Please use the [Dual Enrollment Drop & Withdrawal Form](#).

- You can drop your course up until the designated Drop Deadline. The course will be removed from your transcript and you will receive a full tuition refund.
- After the Drop Deadline and up until the Withdrawal Deadline you can withdraw from your course. The course will remain on your transcript with a grade of "W" (this does not impact your GPA), and there is no tuition refund.
- After the withdrawal deadline you are unable to be removed from the course. The course will remain on your transcript with the grade that you have earned, and there is no tuition refund.
- If you stop attending the course but fail to officially withdraw from the course(s), you will be responsible for full tuition and fees and the course grade will remain on your transcript.