

Instructor: Myles Sedgwick, PhD
Phone: 706-864-2542
Office Hours: M R 10:00 am – 1:00 pm

Office: Rogers 318 (Dahlongega)
Email: masedgwick@ung.edu
Prerequisites: N/A

Corequisite: CHEM 1151L

Course: Survey of Chemistry I
Class Days/Times: MWF 2:00pm – 2:50pm

Term: Fall 2023
Class Location: Rogers - 204

Course Description

CHEM 1151 introduces the student to the composition and reactions of elements, compounds, and mixtures. It is the first of a two-course sequence designed to introduce the student to the concepts and processes of chemistry. It is hoped that the student will gain a better understanding and appreciation of the complex chemical nature of the environment in which we live. Topics normally covered include elements and compounds, chemical equations and reactions, nomenclature, atomic and molecular structure, the periodic table, solutions, and the physical states of matter.

The course carries a three hours credit and meets three lecture hours a week. CHEM 1151 can be used to meet the laboratory science requirement in Area D of the Core Curriculum if the follow up course is taken and passed for a variety of students including allied health majors. The student should simultaneously be enrolled in CHEM 1151L, the laboratory part of the course

Course Goals/Student Learning Objectives

Course Goals

Each student should, at some point of his or her undergraduate career, develop:

- skills of inquiry, abstract and logical thinking, and critical analysis
- literacy in writing, reading, listening, and speaking
- an ability to understand and use numbers and statistics
- an understanding of the scientific method
- a concentration in a discipline to enter a chosen profession, undertake advanced study, or develop an avocation

Course Objectives

The student of Chemistry (CHEM 1151) will learn the essential concepts of classical chemistry by relating to the world around us in terms of chemical concepts. We will cover selected chapters of the text with emphasis on components of matter (atomic theory) and atomic structure, chemical reactions, and models of chemical bonding. This course places an emphasis on applying chemical concepts to everyday observations.

Student will specifically learn about:

- atoms, molecules, and compounds (substances)
- nomenclature of chemicals
- chemical reactions including redox and acid-base reactions
- atomic theory and atomic structure
- types of molecular forces and models of chemical bonding
- mathematical calculations of chemistry
- relationship between energy and matter
- phases of matter

Required Materials/Texts/Readings

Textbook

- **General, Organic, and Biological Chemistry: Abridged: University of North Georgia, Custom Version 2.0.2, By David W. Ball, John W. Hill, and Rhonda J. Scott, ISBN: 978-1-4533-9808-1**

Equipment/material/technology requirements

The following materials and technology are required for this course.

- **Computer access – with reliable highspeed internet.** *This course is Technology Enhanced, which means (Technology is used in delivering instruction to all students in the section, but no class sessions are replaced by technology.) Access to your course materials and Chem 101 will require a computer (or another device) with internet access.
- **Microsoft Office 365** – provided by UNG but you need to have it installed
- **1-2 line, Non-graphing, Scientific Calculator** – You may use a simple (non-graphing) scientific calculator for your exams. Graphing calculators are **NOT ALLOWED** on exams. Texas Instruments TI-30X IIS Scientific Calculator or a Casio FX-82MS 2-Line Display Scientific Calculator are easy to use and relatively inexpensive.

D2L Access

To access this course on D2L <https://ung.view.usg.edu/d2l/home> you will need access to the Internet and a supported Web browser (Firefox is the recommended browser). You log in to D2L account <https://ung.view.usg.edu/d2l/home> with your UNG Campus ID and D2L password. Bookmark this link for future use, or you can always access it by going to [University of North Georgia's homepage](#) and clicking on the Quicklinks pulldown at the top of the page. From there, select D2L. This should take you to the eLearning@UNG page.

Course Policies and Requirements

Grading Policy

Course Specifications: Students are offered a course built around the above explicitly written student learning objectives. There are 16 learning objectives.

15 Learning Objectives + Final Exam (2) = 17 total (used determine your percentage grade)

Evaluation Method

There are 3 requirements in this course:

1. Mastery of common unit learning objectives (15) – Mastery of the remaining learning objectives will be demonstrated by earning 80% or higher on an in class summative assessment.* The number you have to complete to get a particular grade is based upon the standard percentage scale. (A: 90%, B: 80%,)

2. Case Studies – Case studies teach higher-order learning skills beyond memorization. Mastery will be demonstrated with B level work according to a rubric provided in advance in D2L. Mastering the case study is required for an A grade. * There will be 3 case studies in total.

3. Final Exam (2 points) – We will take a standardized exam from the American Chemical Society. If a student does not take the final exam, they will be awarded a failing grade. 3 points will be awarded for students earning an A, 2 points for a B, 1 point for a C and 0 points for a D or F. (Getting an A on the standardized exams does award bonus points)

**Requirements 1-3 have a retake opportunity, but everyone must take the first attempt as scheduled – if mastery is not obtained on the first attempt, everyone gets a second opportunity to retake or resubmit the assessment by the second attempt due date. To retake a summative assessment in class, students must have completed the slide deck for that objective and scored an 80% or higher on the practice homework.*

Course Grading Scale

Master <ul style="list-style-type: none"> Score at least 16 points (Total of 17 eligible) Complete the Final Exam Complete all 3 Case Studies 	A	Excellent Work
Master <ul style="list-style-type: none"> Score at least 14 points (Total of 17 eligible) Complete the Final Exam Complete 2 of the 3 Case Studies 	B	Good Work
Master <ul style="list-style-type: none"> Score at least 12 points (Total of 17 eligible) Complete the Final Exam Complete 1 of the 3 Case Studies 	C	Average Work
Master <ul style="list-style-type: none"> Score at least 12 points (Total of 17 eligible) Complete the Final Exam Complete 0 of the 3 Case Studies 	D	Fair Work

Master <ul style="list-style-type: none"> • Less than 12 learning objectives. 		
<p>An F grade is awarded for any combination of work that does not meet the passing grade requirements above. *</p> <p><i>* For example, not taking the final exam</i></p>	<p>F</p>	<p>Unsatisfactory</p>

Communication Policy

If you have any questions about assignments, your grades, or anything else about the course, please feel free to email me at masedgwick@ung.edu. **DO NOT SEND EMAILS THROUGH D2L!!!** Those are self-contained in D2L and you may not get a speedy response. Emails sent between Monday 8:00 am and Friday 5:00 pm will be responded to within 24 hrs of receipt of the email. Emails over the weekend usually will be responded to within 24 hrs, but may take up to 36 hrs.

Plagiarism/Academic Integrity Policy

Work that you submit is assumed to be original unless your source material is documented appropriately, such as a Works Cited page. Using the ideas or words of another person, even a peer, or a web site, as if it were your own, is plagiarism. Students should read the section <https://wts.indiana.edu/writing-guides/plagiarism.html>. Students who are found to have violated the academic honesty policy will be disciplined based on guidelines set forth in the student's rights and responsibilities handbook

University Withdrawal Policy

There is a short period at the beginning of each new semester during which students are permitted to drop and/or add classes with no penalties and are not required to obtain permission from the instructor.

After the drop/add period, students will be able to withdraw from courses only via their Banner account. Students with a HOLD on their registration process may withdraw from a course or courses by completing the Course Withdrawal Request form and submitting it to the Registrar's Office in person, via FAX, or via U.S. Mail.

Limitations with regard to the official last day to drop a course with a grade of W apply in the online withdrawal process.

- If the student processes the online withdrawal form before 12:00 Midnight on the last day to withdraw with a W, the student will receive a grade of W for the course.
- If the student processes the online withdrawal form after 12:00 Midnight on the last day to withdraw with a W, the student will receive a grade of WF for the course.
- If the student processes a paper withdrawal request in person, via FAX or U.S. Mail before 5:00 PM on the last day to withdraw with a W, the student will receive a grade of W for the course.
- If the student processes a paper withdrawal request in person, via FAX, or U.S. Mail after 5:00 PM on the last day to withdraw with a W, the student will receive a grade of WF for the course.
- It is possible for students who demonstrate a hardship or qualifying medical condition(s) to receive a grade of W should their withdrawal occur after the last day to withdraw with a W.

Instructors retain the ability to assign a grade of W or WF for excessive absences per the university's attendance policy, assuming the student is withdrawn for excessive absences prior to the student processing the online withdrawal form.

Students may be reinstated into a class from which they have withdrawn by completing the Course Reinstatement Request form. The course reinstatement request requires the signature of the instructor of record for the course, department head and dean, or their designees. The course reinstatement request must be submitted to the Registrar's office no later than 5:00 PM on the last day of classes for the term in which the course is being offered.

For the purpose of university records (Registrar's office, Financial Aid office, Business office, etc.), the date the completed online or paper request is received in the Registrar's office will be considered to be the last day of attendance in the class.

Attendance Policy

University of North Georgia expects students to attend all regularly-scheduled classes for instruction and examination. When a student is compelled for any reason to be absent from class, the student should immediately convey the reason for the absence directly to the instructor. The student is responsible for all material presented in class and for all announcements and assignments.

The decision to permit students to make up work that is required in any missed class resides with the instructor. Students who stop attending class may be administratively withdrawn (with or without academic penalty); a grade of W may be assigned when **students fail to attend 10% of any class meetings prior to the midpoint of the term**; a grade of WF will be assigned when students stop attending after the midpoint.

Students who are absent because of university-sponsored activities that are approved by the provost or vice president for student affairs will be permitted to make up any work missed during the absence. "University-sponsored activities" include activities related to performance groups, university athletic teams, the Corps of Cadets, the Student Government Association, field trips related to academic courses, as well as any other university-sponsored activities approved by the provost or vice president for student affairs. Approval of such absences will be granted only if the instructor receives advance notice in writing from the faculty member or university official sponsoring the activity.

Extenuating circumstances for which an absence may be excused include participation in university-sponsored activities, hazardous weather conditions, personal hardship, extended illness or hospitalization, family emergencies, or death in the immediate family. Instructors may request documentation to verify the extenuating circumstances.

Any absence problems which cannot be resolved between the instructor and the student are referred immediately to the appropriate department head and, if necessary, to the dean of the appropriate school. The dean of the appropriate school is the final arbiter in all absence disputes.

Technical Assistance

If you need assistance with technical aspects of Brightspace by D2L (logging in, resetting password, etc.), please email helpdesk@ung.edu or [self-help](#).

Inform me of Any Accommodations Needed

The University of North Georgia Student Accessibility Services (SAS) staff is committed to ensuring all students have equal access to a college education regardless of the presence or absence of a disability. The Student Accessibility Services department provides numerous accommodations, services, and resources for students with disabilities and temporary injuries or illnesses. Trust and advocacy are the hallmarks of this service and we ensure that confidentiality is maintained.

Students **MUST** register with Student Accessibility Services for access to accommodations and assistive technologies. Student Accessibility Services **can not** reach out to students who may need such accommodations. It is the responsibility of the student to register.

If you have accommodations, please send to me ASAP! Accommodations take effect the date I receive them. They are not retroactive.

Title XI

Title IX of the Education Amendments of 1972 (20 U.S.C. § 1681) provides that no person shall, on the basis of sex, be excluded from participation in, be denied benefits, or be subjected to discrimination under any education program or activity receiving federal financial assistance.

Creating a Healthy Environment

The University of North Georgia plans to have a typical semester this fall with in-person instruction and robust on-campus student activities.

Students, faculty, staff, and visitors are strongly encouraged to follow the best practices recommended by state public health officials and the CDC to prevent the spread of the coronavirus.

We encourage everyone [to get the proven safe and effective vaccine](#) and hope everyone will do their part to keep our campus communities safe by following recommended guidelines.

UNG's plans follow guidance from the [University System of Georgia \(USG\)](#), the [Governor's COVID-19 Task Force](#), the [Georgia Department of Public Health \(GDPH\)](#), and the [Centers for Disease Control and Prevention \(CDC\)](#) to make public health-informed decisions affecting the status of its campuses. The COVID-19 situation is fluid, and guidance will very likely change over time.