



NORTHWEST FLORIDA STATE COLLEGE

CHM1020 Online, Chemical Science, 3 credits Spring 2026

- Professor: Dr. Kurt Teets
- Office: Bldg. 350, Rm. 211
- Office Hours: Posted by office door, and by appointment
- Phone: 850-729-5247
- Email: teetsk@nwfsc.edu
- Reference Number: 20292
- Class Days: Online
- Class Times: Online
- Required texts/resources: 1) Computer and internet access. Canvas Learning Management System (LMS) provided by NWFSC. 2) OpenStax **free** online/PDF text. <https://openstax.org/books/chemistry-2e/pages/1-introduction>. 3) ALEKS online homework. Students need to purchase an access code via link sent by the instructor at the beginning of the semester.

Course Curriculum

THIS COURSE PROVIDES STUDENTS WITH AN INTRODUCTION TO CHEMICAL PRINCIPLES AND APPLICATIONS FOR THE NON-SCIENCE MAJOR. STUDENTS WILL ENGAGE IN PROBLEM SOLVING AND CRITICAL THINKING WHILE APPLYING CHEMICAL CONCEPTS. TOPICS WILL INCLUDE THE SCIENTIFIC METHOD OF PROBLEM SOLVING, CLASSIFICATION OF MATTER, ATOMIC THEORY, THE PERIODIC TABLE, GASES, CHEMICAL REACTIONS, ENERGY, AND CHEMICAL BONDS.

STUDENT LEARNING OUTCOMES:

1. STUDENTS WILL BE ABLE TO DISTINGUISH BETWEEN PHYSICAL AND CHEMICAL PROPERTIES AND CHANGES.
2. STUDENTS WILL RECOGNIZE COMPONENTS OF GASEOUS CHEMISTRY.
3. STUDENTS WILL RECOGNIZE COMPONENTS OF AQUEOUS CHEMISTRY INCLUDING PROPERTIES OF WATER, SOLUTIONS, AND ACIDS AND BASES.
4. STUDENTS WILL CORRELATE THE DESIGN OF THE PERIODIC TABLE TO PERIODIC TRENDS AND PHYSICAL AND CHEMICAL PROPERTIES ELEMENTS.
5. STUDENTS WILL WRITE AND INTERPRET CHEMICAL FORMULAE AND WRITE BALANCED CHEMICAL EQUATIONS

SLO Objectives

- *Students will apply the law of conservation of matter and energy.*
- *Students will implement rules of significant numbers to all measurements.*
- *Students will explain the fundamental properties of matter including but not limited to atomic and electronic structure, and periodicity.*
- *Students will apply IUPAC rules of nomenclature.*
- *Students will predict molecular geometry and properties from bonding theories*
- *Students will predict and explain the products of chemical reactions (e.g., acid-base, oxidation-reduction, precipitation, dissociation).*
- *Students will learn unit conversions, stoichiometry calculations and the mole concept*

- Students will learn gas laws and calculations involving them

Student Expectations of the Course

Instructor will reply to emails with 48 College business hours

Instructor will post and maintain office hours

Instructor will provide a schedule of material to be covered on the syllabus

Instructor will communicate important information such as exam dates in a timely manner

Instructor will maintain updated gradebook in the Canvas LMS

Instructor will include a clear grading policy in the syllabus

Instructor will include contact information such as their email address and phone number

Instructor will return graded work in a timely manner

Instructor will post videos in the Canvas LMS on topics covered for students to watch at their leisure

How Student Performance Will be Measured

The student may be evaluated by the following methods:

Periodic exams over lecture material

Periodic quizzes

Completion of written homework assignments and/or online homework assignments in the Canvas LMS

Course Prerequisite(s)

None

Course Materials

Chemistry, 2e, OpenStax OER text (online/PDF or hardcopy); Computer access with webcam; nonprogrammable calculator

You can purchase a hardcopy from the NWFSC bookstore, or from the Openstax website.

Below is the URL for the **free** online version of the text. A **free** PDF can also be downloaded from the OpenStax site:

<https://openstax.org/books/chemistry-2e/pages/1-introduction>

Accessing the course

The class material for CHM 1020 Distance Learning is delivered via Northwest Florida State College's online classroom platform, Canvas. You can navigate to it from the College's home page:

<https://www.nwfsc.edu/>. Click on the NWF Online link at the top, and log-in using the same credentials you would for your student email account.

First Things

IF YOU DO NOT GET A 100% GRADE ON THE ORIENTATION QUIZ BY ITS DUE DATE, YOU WILL BE DROPPED FOR NONATTENDANCE!!!

The first thing to do is take the Orientation quiz in the Canvas. Once you get a 100% on it, other assessments will unlock. You have unlimited attempts at it until the due date. It also serves as your record of attendance before the end of the drop/add period.

Respondus Lockdown Browser

Also a first thing to do is take the practice Respondus Lockdown quiz, so you are familiar with it and how to use it. All Unit tests, and the Final exam, will require you to use the Respondus Lockdown browser and webcam. We use this for Academic Integrity. **Download the Respondus Browser on all computers you may take online exams on.**

When you are taking an assessment using the Respondus Lockdown browser, you will not be able to open other tabs/browsers/applications. Also, the Respondus Monitor is to record video while the assessment is being taken.

Also, take the practice free response quiz, so you are familiar with entering answers that may include subscripts and superscripts

The extra credit quizzes DO NOT require/use the Respondus Lockdown browser.

LockDown Browser + Webcam Requirement

This course requires the use of LockDown Browser and a webcam for online exams. The webcam can be the type that's built into your computer or one that plugs in with a USB cable.

Watch this brief video to get a basic understanding of LockDown Browser and the webcam feature.

<https://www.respondus.com/products/lockdown-browser/student-movie.shtml>

Download Instructions

- Select a quiz from the course
- If you have not already installed LockDown Browser, select the link to download the application and follow the installation instructions
- Return to the quiz page in a standard browser
- LockDown Browser will launch and the quiz will begin

Note: LockDown Browser only needs to be installed once per computer or device. It will start automatically from that point forward when a test requires it.

Guidelines

When taking an online exam, follow these guidelines:

- Ensure you're in a location where you won't be interrupted

- Turn off all other devices (e.g. tablets, phones, second computers) and place them outside of your reach
- Before starting the test, know how much time is available for it, and also that you've allotted sufficient time to complete it
- Clear your desk or workspace of all external materials not permitted - books, papers, other devices
- Remain at your computer for the duration of the test
- If the computer, Wi-Fi, or location is different than what was used previously with the "Webcam Check" and "System & Network Check" in LockDown Browser, run the checks again prior to the exam
- To produce a good webcam video, do the following:
 - Avoid wearing baseball caps or hats with brims
 - Ensure your computer or device is on a firm surface (a desk or table). Do NOT have the computer on your lap, a bed, or other surface where the device (or you) are likely to move
 - If using a built-in webcam, avoid readjusting the tilt of the screen after the webcam setup is complete
 - Take the exam in a well-lit room, but avoid backlighting (such as sitting with your back to a window)
- Remember that LockDown Browser will prevent you from accessing other websites or applications; you will be unable to exit the test until all questions are completed and submitted

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Getting Help

Several resources are available if you encounter problems with LockDown Browser:

- The Windows and Mac versions of LockDown Browser have a "Help Center" button located on the toolbar. Use the "System & Network Check" to troubleshoot issues. If an exam requires you to use a webcam, also run the "Webcam Check" from this area
- 24/7/365 Live Chat Support is also available from the Help Center, or from within the "it's not working" troubleshooter.

- **[How do I contact NWF Learning Technologies Support?](#)**

- Call us at [\(850\) 729-6464](tel:8507296464)
- Email us at online@nwfsc.edu
- Send us a [support ticket via Fresh Service](#)

Visit us at [Building 430, Room 100 at the Niceville Campus](#)

Please regularly check your NWFSC student email. It is the official mode of communication for the College. Please contact me via email with any questions/issues. Posts in Canvas discussion are not automatically sent to the instructor and may not be seen immediately.

Online proctoring

This course supervises exams through an online proctoring tool that will monitor you while completing course assessments. Northwest Florida State College authorizes the use of approved online proctoring solutions, such as Respondus, to promote academic integrity. These solutions have been approved by NWFSC Academic Affairs and NWFSC IT to be used in course assessments. The Respondus solution may monitor assessments by a variety of means, such as but not limited to, viewing and recording through your computer's webcam, monitoring for noise in the room through your computer's microphone and speaker system, monitoring for other internet usage while taking the assessment, and recording keystroke and visual images. The College has authorized these approved online proctoring providers to perform this service for the purpose of maintaining academic integrity. Information gathered through the proctoring solution is used by the College to ensure academic integrity in testing and may result in a complaint against you under the Academic Integrity Policy or Student Code of Conduct, should the College have reason to believe either policy has been violated. By registering for this course and maintaining your enrollment and not dropping the course prior to the add/drop deadline, you freely and voluntarily consent to the online proctoring requirement in this course.

Grading Procedures

Your grade will be based on the percentage of **all** points that you earn in the class. All assessments (quizzes, tests, final exam) will be taken in Canvas:

- **NO QUIZZES/TESTS WILL UNLOCK UNTIL YOU GET A 100% ON THE ORIENTATION QUIZ!!!! YOU WILL BE DROPPED FOR NONATTENDANCE IF YOU DO NOT COMPLETE THE ORIENTATION QUIZ WITH A 100% BY ITS DUE DATE.**
- 4 Unit exams, on approximately 3 Units each, and Cumulative Final Exam: 90% of grade. Lowest score of these will be dropped. These require the Lockdown Browser and Respondus Monitor. Only one attempt on each. Must use the Respondus Lockdown browser and Respondus Monitor. Exams will be approximately every 3-4 weeks.
- ALEKS ONLINE Homework: 10% of grade
- Canvas extra credit quizzes (different from Canvas exams). There will be 3 per Unit. At the end of the semester, your overall average on these can raise your overall course average by 3%. You can take each quiz an unlimited number of times until the cutoff date. Only the highest score is recorded in the gradebook for each. **You do NOT use the Respondus Lockdown browser for these. These quizzes are NOT the homework.** That is in ALEKS.

Cheating

Any students caught cheating, on their own or with others, whether on an exam, quiz, homework, or lab, will immediately fail the class, regardless of their current grades.

Grade calculation

4 Unit exams and Final exam, 90% of total: $(\text{your \% average on all tests}/100) * 90$; lowest of these scores is dropped from the overall exam average.

ALEKS Homework, 10% of total: Your average on ALKES HW*10

Sum total = your overall % average **BEFORE** extra credit

+ $(\text{extra credit \%}/100) * 3$; this is added at the end of the semester, after the above calculation

= your overall % average in the class

Below is the grade scale for this class.

Percent	Grade
90-100	A
80-89.99	B
65-79.99	C
50-64.99	D
Below 50	F

Canvas -

All NWFSC classes use Canvas, a platform for online learning. Students can access this class's Canvas site at online.nwfsc.edu, or through RaiderNet. Students will find the class syllabus, course grades, and other resources. You will find recorded lectures by the professor and also curated videos for each unit there.

Assignments

reference:

TENTATIVE! Circumstances (Hurricanes, other campus closures) may necessitate changes in schedule. Exams will be taken online, every 3-4 weeks during the semester. Exam 1: Units 1-3. Exam 2:

Units 4-6. Exam 3: Units 7-9. Exam 4 Units 10-12. Final exam Units 1-12. All taken online via Canvas and Respondus Browser and Monitor.

Unit 1: Ch. 1.1-1.3

Unit 2: Ch. 1.4-1.6

Unit 3: Ch. 2.1-2.6

Unit 4: Ch. 2.7

Unit 5: Ch. 3.1-3.3

Unit 6: Ch. 4.1-4.2, 11.2

Unit 7: Ch. 4.3-4.4

Unit 8: Ch. 5.1-5.3

Unit 9: Ch. 6.1-6.3

Unit 10: Ch. 6.4-6.5

Unit 11: Ch. 7.1-7.3

Unit 12: Ch. 7.4, 7.6

NWFSC Policy	Description
<u>Academic Integrity</u>	Students are expected to behave responsibly as members of the College community and be honest and forthright in their academic endeavors. They are also expected to behave professionally and refrain from disrupting other students' learning environments.
<u>Accommodations</u>	The Accommodation Resource Center at Northwest Florida State College is committed to providing equal access and opportunities for educational success to all students with disabilities as guided by the American Disabilities Act and other disability-related laws.
<u>Attendance</u>	Regular attendance and participation in the course is expected.
<u>Tutoring Services</u>	Tutoring services are available in person and online.

<u>Counseling Services</u>	All actively enrolled students can receive an initial assessment and up to five therapeutic sessions with a Behavioral Health provider at no cost to the student.
<u>Student Code of Conduct</u>	Students are expected to adhere to the rules, regulations, and policies outlined in the Student Code of Conduct.
<u>Student Complaints</u>	NWFSC desires to resolve student grievances, complaints, and concerns expeditiously, fairly, and in an amicable manner. A student who desires to resolve a grievance may initiate the resolution process using the information in the link provided to the left.
<u>Student Rights and Responsibilities</u>	Understanding your role as a student.

Make-up Work

No make-up exams, quizzes or homework. If instructor is notified in a timely fashion BEFORE date of assignment, arrangements **may** be made **within reason**.

Attendance Confirmation

Active participation and academic engagement are expectations of enrollment in this course. Faculty confirm each student’s attendance in class after the drop-add period ends. Students who have not attended class or otherwise engaged academically in the course through the submission of an academic assignment or through participation in a curricular activity will be withdrawn from the course for nonattendance.

Students who are withdrawn for nonattendance or nonparticipation early in the course may request to be reinstated in the course by contacting their instructor by email. Reinstatement in the course is at the instructor’s discretion during the first three weeks of class and is not guaranteed. Reinstatement requests occurring after this three-week period may be submitted to the instructor for consideration; however, additional administrative approval will be required to grant the reinstatement. If you are withdrawn from a course due to nonattendance and are not granted reinstatement in the course, please contact a Student Success Navigator for assistance.

Instructor Communication –

Your NWFSC email is the official communication medium of the College. Please check College email regularly for any class and College notifications. Instructor will reply within 48 BUSINESS HOURS. College is closed Friday through Sunday.

Lecture Recordings

Students may, without prior notice, record video or audio of a class lecture for a class in which the student is enrolled for their own personal educational use. A class lecture is defined as a formal or methodical oral presentation as part of a College course intended to present information or teach about a particular subject. Recording class activities other than class lectures is not permitted. Except as detailed in the Catalog, recordings may not be published or shared without the written consent of the faculty member. To read and fully understand your rights and responsibilities when recording, visit the Catalog.

Welcome to Class

Thank you for choosing NWFSC for your education—and welcome to class!