



NORTHWEST FLORIDA STATE COLLEGE

CHM 1045C, College Chemistry I, CRN 30019, 4 Credit Hours
(Lecture) (Summer) (2026)

- Professor: Dr. Kurt Teets
- Email: teetsk@nwfsc.edu
- Phone: 850-729-5247
- Office Hours: By appointment.
- Office Location: Niceville Building 350, office 211/228
- Class Location: Niceville, Building 350, room 228
- Class Days: MW
- Class Times: 8 am-11:15 am
- Online Classroom with Gradebook: [Canvas class shell](#). [ALEKS Classroom for homework](#)
- Final Exam: Last day of the semester

Course Description

Course Curriculum

THIS COURSE IS DESIGNED FOR STUDENTS PURSUING CAREERS IN THE SCIENCES OR WHO NEED A MORE RIGOROUS PRESENTATION OF CHEMICAL CONCEPTS THAN IS OFFERED IN AN INTRODUCTORY COURSE. STUDENTS WILL ENGAGE IN PROBLEM SOLVING AND CRITICAL THINKING WHILE APPLYING CHEMICAL CONCEPTS. TOPICS WILL INCLUDE THE PRINCIPLES OF CHEMISTRY INCLUDING ATOMIC THEORY, ELECTRONIC AND MOLECULAR STRUCTURE, MEASUREMENT, STOICHIOMETRY, BONDING, PERIODICITY, THERMOCHEMISTRY, NOMENCLATURE, SOLUTIONS, AND THE PROPERTIES OF GASES.

STUDENT LEARNING OUTCOMES:

- 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).

Course-Level Student Learning Outcomes

- *NS-1: The student will demonstrate an understanding of the scientific method, distinguishing between fact, scientific law, hypotheses, and theory; and recognizing the difference between scientific and non-scientific explanations.*
- *NS-2: The student will interpret data, given in problem form or obtained experimentally, in order to demonstrate problem-solving skills (critical thinking), develop testable explanations, or distinguish the difference between correlation and causation.*
- *NS-3: The student will demonstrate fundamental knowledge of the terminology, major concepts, and theories of at least one field within the physical sciences, and in the biological sciences.*

- *NS-4: The student will relate scientific discoveries and theories to broader areas of human concern.*

Course Prerequisite

MAC 1105

Course Materials

REQUIRED: Chemistry: Volume 1, Burdge, NWFSC custom edition

ALEKS code for online homework

Catalyst custom lab manual for CHM 1045C

OPTIONAL: ACS Study guide for Standardized Exam in General Chemistry. Can be purchased from the Division of Chemical Education: <https://www.divched.org/>

Attendance Confirmation

Active participation and academic engagement are expectations of enrollment in this course.

Students who stop attending class or are not able to pass the course due to attendance expectations stated in the syllabus may receive a failing grade, which may impact the receipt of federal aid in subsequent courses. Students traveling for College-approved activities will not be penalized academically but will be responsible for missed work.

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.

Classroom Conduct

Electronic devices must not distract from learning. Courtesy to the professor and other students requires that phones be on vibrate or silent mode during class. No student should initiate conversations, including texts, during class activities. Use of electronic communication devices during examinations or other graded activities may constitute grounds for disciplinary action; such devices must be completely out of sight during exams or other assessments. Where emergency or employment situations require access to electronic communication services, arrangements may be made in advance with the instructor.

Disrespectful, discourteous, or aggressive or hostile behavior towards any persons in class will not be tolerated, and will result in removal from the classroom, and possible failure of the class.

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.

Student Expectations and Resources

NWFSC aims for excellence in education and scholarly pursuits. Campus policies and procedures support this goal by protecting the health, safety, welfare, and property of the College and its students. To view all campus policies, please see the [college catalog](#). Several essential policies are provided below.

<u>NWFSC Policy</u>	<u>Description</u>
<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, homework or labs. If instructor is notified in a timely fashion BEFORE date of assignment, arrangements can be made within reason.

Missed lectures

Students should try to attend every lecture. For lectures or labs when a test or quiz is scheduled, read the **test/exam and quiz taking policies** below. If you miss a lecture, it is your responsibility to get notes on that lecture and/or read it in the book. There are videos in Canvas to view for missed lectures. If you have questions on the material covered during the lecture, you need to see the instructor after class/in office hours to discuss them in detail. Lecture time cannot be taken to recover material previously covered in lecture, for someone who wasn't there for the lecture.

Question time

Lectures begin with the instructor asking if there are any questions. This is the time to ask **SPECIFIC** questions, such as a homework problem, or some other question that you have an example of to work from. This is a reason you need to be doing homework problems ahead of time. The best is if you can give/show the instructor the actual question/problem.

There is not enough time to answer very general questions such as "I don't understand Ch. 3", or "what's up with stoichiometry?" Questions like that have no answer but to give the lecture on that chapter over again, and there is no time for that. It is not an efficient use of everyone's time. Neither can material be recovered for someone who wasn't there for the lecture that included that topic.

Grading Scheme and Procedures

- Lecture exams and final exam (The final is a standardized American Chemical Society exam)-70% of grade. These will consist of in-class lecture exams. Your lowest exam score is dropped. There are no make-ups for unexcused absences. Within reason, exams can be taken a few days early or a few days later with a reasonable, **DOCUMENTED** excuse. The average of all exams account for 70% of your grade. The lowest score of these exams, which can be the final, will be dropped from the overall exam average **at the end of the semester.**
- ALEKS HW-15%. These are required, and will be assigned for each chapter. They must be submitted by the due date, or you receive a score of zero for that assignment. You access ALEKS assignments via the navigation menu on the left hand side of the Canvas home page. Clicking on that that will take you to the ALEKS course. You will then find a link on the top "Assignments". Hover over that, and you will then see a drop down menu with "assignments". Click on that to bring up assignments. ALEKS Homework: 10% of grade. If you need a 2 week free access code, please email me and I can get it and email it back to you with instructions.
- Lab: 15% of grade. Grade is based on completion of in-person labs. You must attend and perform the labs and have your results checked off as satisfactorily performing the lab experiment, and complete any assigned virtual labs. Each absence/lack of completion will result in a loss of 10% of the lab grade. **You cannot receive a passing grade in the class (as in you will be assigned a failing grade of F), without documented excuses/reasons, if you have more than 1 instance of unexcused absences from lab.**

No one is allowed to leave the classroom after a test/exam/quiz starts, and return, until all finish. If a student leaves the room after the start of an assessment, that means they are finished with the assessment at that time. Also, no one can enter and start a test/exam/quiz after others have started, and have left.

IF YOU ARE TARDY FOR AN EXAM OR QUIZ, YOU WILL NOT BE GIVEN EXTRA TIME TO COMPLETE THE EXAM OR QUIZ. EVERYONE WILL OBSERVE THE SAME STARTING AND FINISHING TIME.

There will be 1000 points total in the class. Your hourly exams, quizzes, homework, lab, and final exam will contribute to your overall grade in the following way:

Exams, 70% of total: $(\text{your \% average on all tests}/100) * 700$ points

+ALEKS homework, 15% of total: $(\text{your \% on ALEKS assignments}/100) * 150$ points

+lab , 15% of total: $(\text{your \%}/100) * 150$ points

Sum total = your points in class out of 1000 before any extra credit points (if any)

= your total of all points in class out of 1000

Below is the grade scale for this class.

Grade scale: A: 100-90%
 B: 89.5-80%
 C: 79.5-65%
 D: 64.5-50%
 F: below 50%

Grades will NOT be given out via e-mail or over the phone. For legal reasons.

Make-up Work

There are no make-up exams. This does not mean if you cannot take a scheduled exam or quiz when your class does, you cannot take it. You need to inform the Professor beforehand to arrange when to take it, within reason, or provide documentation as to why you could not take it when the class did. Any missed online homework will result in a zero for that assignment, unless a documented reason for not completing it on time is provided.

Instructor Communication

Your NWFSC email is the official communication medium of the College. Please check College email regularly for any class and College notifications. Posts/messages in Canvas are not the same thing, and may not be seen or responded to. The instructor will reply to

emails within 48 business hours. College is open Monday to Thursday. Friday to Sunday are not business days.

NOTE: EXAM AND QUIZ DATES MAY CHANGE. THIS IS A TENTATIVE, DYNAMIC SYLLABUS AS FAR AS EXACT DATES ARE INVOLVED. MATERIAL COVERED MAY CHANGE AS DICTATED BY CIRCUMSTANCES (TIME, HURRICANES, OTHER). YOU ARE RESPONSIBLE FOR ANNOUNCEMENTS MADE DURING LECTURE, AS WELL AS FOR THE INFORMATION ON THIS SYLLABUS, AND POSTED ON CANVAS OR SENT TO YOUR STUDENT EMAIL.

THE USE OF PROGRAMMABLE/GRAPHING CALCULATORS, CELL PHONES, SMART WATCHES, GOOGLE GLASSES OR PDAS WILL NOT BE ALLOWED DURING EXAMS OR QUIZZES, NOR WILL SCRATCH PAPER OR ADDITIONAL AIDS SUCH AS NOTE CARDS.

[Student Rights, Responsibilities, and Academic Integrity](#)

Plagiarism, cheating, or any other form of academic dishonesty is a serious breach of student responsibilities and will **NOT** be tolerated. Any student caught cheating or plagiarizing any material will automatically fail the course, and receive a grade of F for the course, regardless of their overall grade at the time of their being caught cheating. Full stop. End of story.

Cheating will also result in an immediate referral **to the Vice President of Academic Affairs** for disciplinary action which may include suspension or dismissal from the college.

Cheating during tests/exams/quizzes includes, but is not limited to, using or attempting to use unauthorized materials, information, notes, study aids or other devices, information from another student or student's paper, **any use of any electronic device**.

Cell phones, smart watches, tablets, laptops and any other electronic devices are to be placed at the front of the classroom, as are any bags, books, or papers. You cannot have any of these items with you during an exam/test/quiz. No cell phones in a pocket, if the cell phone is visible or not.

The only items allowed with you are the given exam/test/quiz, pencils, a nonprogrammable calculator (NO TI-80 series or other graphing/ programmable calculators), and any reference materials the Professor may provide. **NO SCRATCH PAPER OR NOTE CARDS**. All materials must be returned after the exam/test/quiz.

Any exams/tests/quizzes taken late, **with a documentable excuse**, are to be taken at the testing center at the CITL, **if agreed to by the Professor beforehand**. But not after the Professor hands back graded items for that exam/test/quiz. No exceptions.

Also, no hats/headwear. This includes headphones or earbuds, even if they are placed on the desk in front of the student. All of these items are to be placed at the front of the room in the place designated by the Professor before the exam/test/quiz starts, or given to staff at the CITL.

All policies referenced above apply to any exam/test/quiz taken at the CITL.

A ZERO tolerance policy will be employed for any instance of cheating!!

Assignment Schedule (Tentative)

Assignments

<u>Week of (Monday):</u>	<u>Lab</u>	<u>Tentative lecture/exam outline</u>
May 11	No lab (lecture)	Ch. 1
May 18	No lab (lecture)	Ch. 2
May 25	No lab (lecture)	Ch. 3; College closed May 26
June 1	No lab	exam 1, Ch. 1-2
June 8	No lab (lecture)	Ch. 4
June 15	titration lab	Ch. 5; exam 2, Ch. 3-4
June 22	no lab (lecture)	Ch. 6
June 29	p. 45	Ch. 7; exam 3 Ch.5-6
July 6	p.69	Ch 8
July 13	No lab (lecture)	Ch. 9; exam 4, Ch. 7-8
July 20	thermo lab	Ch 10
July 27	gas law lab	Ch 11; exam 5, Ch. 9-10
August 3	Final exam	Final exam

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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.

Emergency College Closure

In the event of unusual or extraordinary circumstances, the schedule, requirements, and procedures in this course are subject to change. If the College closes for inclement weather or other emergency, any exams, presentations, or assignments previously scheduled during the closure period will automatically be rescheduled for the first regular class meeting held once the college re-opens. If changes to graded activities are required, students will not be penalized as a result of the adjustments but will be responsible for meeting revised deadlines and course requirements.

Academic Continuity Plan

Northwest Florida State College is dedicated to protecting the health and wellbeing of its students, staff, and faculty. The College is dedicated to working with faculty and students to ensure timely course and program completion during emergencies. In the event of a College closure, the format of this course may be modified to enable completion of the course through other means, including but not limited to online course delivery through online classrooms. Check your RaiderNet College email and LMS classroom online for any updates.

Classroom Conduct

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Any disrespectful, intimidating, or aggressive behavior towards a member of the class, staff, or the Professor, will result in removal from the classroom, and possible removal from the course.

Welcome to Class

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

A NOTE (OR TWO) ON STUDYING, OR, HOW DR. TEETS STUDIED IN COLLEGE

If you come to class every lecture, take copious notes, never miss a lab, and read the chapter material before and after each lecture, what grade do you think you can reasonably expect to earn at the end of the semester? The answer is, most likely, unless you have a natural knack for chemistry, a C. Why? Because you have left out one part. By far the MOST important part. Practicing problems. **IF YOU DO NOT PRACTICE PROBLEMS SEVERAL TIMES A WEEK, YOU WILL NOT PERFORM TO YOUR DESIRED LEVEL ON EXAMS. PERIOD. END OF STORY.**

The **ONLY** way to excel in chemistry is to **DO PROBLEMS!!!** As many as you can possibly stand to do, and then do more. I am not kidding about this. You will find over 100 problems at the end of every chapter (a highly recommended starting point). There is no lack of material available for you to use to prepare yourself for each exam. **However, no one can make you study except you.**

Now, an equally important point as “What do I study” is “When do I study”? The answer is: **early and often.** Do NOT put off studying until two days before an exam. Unless you are an exceptional student, it is too late then. Not only will you be overwhelmed by the amount of material you need to study, but you will have no opportunity to ask questions in class or office hours on the material you need help with. You should work problems at least 2-3 times a week for several hours each time. Doing just the weekly homework problem set is **NOT ENOUGH.** You must do more on your own.

I would also suggest recopying your class notes **each week** into a condensed, easy to read version. **YOU MUST TAKE GOOD NOTES IN CLASS!!!** Do not forget that your textbook is an excellent reference for filling in gaps you may have in your notes. Then, assembling your weekly summaries into one master set of notes for each test will provide yet another chance for you to review, read, study and analyze your notes as you recopy them for a second time. All this repetition of working problems, and copying and recopying notes, is not just busy work. It is the **ONLY** way that the material can make it from the page to your brain and stay there. **THERE ARE NO MAGIC BULLETS!**

One last word: do not fall behind. This is a little thing to say, but a huge problem if you do it. It will be extremely hard for you to catch up, and catch up you must. In chemistry, the material keeps building on what has been learned before. And if you have not learned the material that was covered earlier in the semester, then, on exams later in the semester, well...

YOUR FIRST SOURCE FOR HELP SHOULD BE YOUR INSTRUCTOR DURING OFFICE HOURS. TAKE ADVANTAGE OF THESE. HOWEVER, NO ONE BUT YOU CAN MAKE YOU STUDY! I WILL NOT BE LOOKING OVER YOUR SHOULDER, PESTERING YOU TO DO HOMEWORK PROBLEMS OR RECOPY YOUR NOTES.