

Chemistry 151-D01
General Chemistry I
Fall 2016
Mrs. Kristina Mazzarone

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[Email is BEST way to contact me!](#)

Office hours:

Mon & Fri 9:00 – 10:00

Tues & Thur 11:00 – 12:00

Wed 1:00 – 2:00

Or By appointment

Respond Time: Emails sent during the week will receive a response within 24 hours. Emails sent during the weekend will be returned on Monday.

CFCC General Education Competencies will incorporate all or some of the following:

- | | |
|-----------------------|--|
| 1. Computer Skills | 5. Quantitative Skills |
| 2. Critical Thinking | 6. Written Communication |
| 3. Global Awareness | 7. Understanding Scientific Concepts
And Applications |
| 4. Oral Communication | |

This course emphasizes the following general education competency:

Scientific Reasoning: Students engage in scientific reasoning when they use fundamental scientific concepts and theories to analyze problems, observations, and/or experiments in the life and physical sciences. Students demonstrate scientific reasoning when they:

- Apply appropriate scientific concepts, theories, and language to problems, observations, or experiments
- Utilize scientific data to analyze problems, observations, or experiments
- Apply scientific observations, calculations, and/or measurements to problems or experiments
- Articulate conclusions about problems, observations, or experiments using appropriate scientific concepts and data

This course emphasizes the following general education competency:

Critical Thinking: Critical thinking is the deliberate process of questioning, evaluating, and responding to problems, scenarios, and arguments in order to reach sound solutions, decisions, and positions. Students demonstrate critical thinking when they:

- Ask pertinent questions that clarify and focus a problem, scenario, or argument
- Evaluate the quantity, quality, and usefulness of information
- Articulate a sound solution, decision, or position based on appropriate standards of reasoning
- Monitor and reflect upon the quality and fairness of their reasoning

CLASS HOURS PER WEEK: Lecture 3; Lab 3. Semester Credit hour: 4

CLASS MEETING TIMES:

Lecture	MWF	8:00 am – 8:50 am	Room: N-209
Laboratory	W	9:00 am – 11:50am	Room: N-308

REQUIRED TEXT: Lecture: Chemistry: Structure and Properties with New Design Mastering by Nivaldo Tro, 1st edition, Pearson.

Laboratory: **Gen Chem Lab Manual (101/102, UNCW)** Edition: 5th

COURSE DESCRIPTION: This course covers fundamental principles and laws of chemistry. Topics include measurement, atomic and molecular structure, periodicity, chemical reactions, chemical bonding, stoichiometry, thermochemistry, gas laws, and solutions. Upon completion, students should be able to demonstrate an understanding of fundamental chemical laws and concepts, as needed in CHM 152. This is a Universal General Education Transfer Component (UGETC) course.

PREREQUISITE:

1. Completion of one of the following:

- Grade of “C” or better in RED-090
- Grade of “C” or better in ENG-095
- Grade of “C” or better in DRE-098
- Required Placement Test Score(s)

AND

2. Grade of “C” or better in MAT 060 **OR**

Grade of “C” or better in DMA 010, DMA 020, and DMA 030

AND

3. Grade of “C” or better in MAT 080, MAT 090 or MAT 095 **OR**

Grade of “C” or better in DMA 040, DMA 050, DMA 060, DMA 070, and DMA 080 **OR**

Successful completion of MAT 161 or MAT 171 or MAT 175

Co-requisite: None

OTHER DAILY REQUIREMENTS:

- Calculator

-Paper

-Writing Utensil

COURSE OBJECTIVES:

Upon completion, students should be able to demonstrate a basic understanding of chemistry and their interrelations of the following topics:

- ~ Matter & Measurements
- ~ Atoms, Molecules, and Ions
- ~ Stoichiometry: Calculations with Chemical Formulas & Equations
- ~ Chemical Reactions and Solution Stoichiometry
- ~ Gases
- ~ Thermochemistry
- ~ Quantum Theory of the Atom
- ~ Periodic Properties of Elements
- ~ Basic Concepts of Chemical Bonding
- ~ Molecular Geometry and Bonding Theories
- ~ Intermolecular Forces, Liquids and Solids

EXPECTATION OF STUDENTS:

1. Be here every day *on time*. You will be responsible for any handouts or missed material.
2. Spend significant time with the textbook and notes outside of class.
 - Read material prior to class
 - Read for more detail after it is discussed in class
 - Work through problems
3. Do the homework
4. Participate in class- ask and answer questions
5. Show respect for other students and for instructor
6. Use available resources
 - Instructor
 - Other students
 - Science Learning Lab (N-407)
7. Never Give Up!!

If you adhere to these, you will succeed in this class. It will take time and effort on your part, but you can do it. Please do not hesitate to come see me if you are struggling. The earlier you get help the better!

ATTENDANCE POLICY

Lecture: Attendance will be taken at the beginning of each class. Students are expected to attend all class meetings as scheduled. Students who miss more than 20% of the scheduled class time automatically receive a failing grade (F) for the course. Attendance is mandatory prior to the course Census Date (10%) for a student to remain in any class. Also, expect that attendance will be taken at the beginning of all class periods.

It is expected that you will attend all lectures, take all exams, and complete all other assignments. Students who miss lecture should consult with other class members to obtain notes and review any material posted on Blackboard. You are responsible for all material covered in the missed class.

Laboratory: You must attend your scheduled lab each week. **There are no make-up labs.** If you miss a lab, you will receive a score of zero for that day. You must be punctual. If you arrive more

than 5 minutes late you will receive a zero on your prelab. If you arrive more than 10 minutes late, you will be counted absent for that day.

LECTURES

My lecture presentations are summaries of the material in a chapter. During the course of a presentation, I will stop and work out problems from the chapter to illustrate the chapter's concepts.

HOMEWORK:

Homework will be assigned through the Pearson – Mylab and Mastering homework program. Homework will be due the night before an exam. No late homework will be accepted for credit.

The assigned homework problems are intended to help you make a connection between my summary and the material in the textbook. Do not limit yourself to the assigned homework problems. Work as many problems as possible. The more you practice setting up problems, the easier it will become, and the less likely you are to find yourself hung up during a quizzes and exams.

LABORATORY EXPERIMENTS:

Arriving on time for lab is *very* important. The beginning of each lab period is when the experiment will be discussed, including any safety concerns. You need to be present to get this information. . If you arrive more than 5 minutes late you will receive a zero on your prelab. If you are more than 10 minutes late you will be counted as absent and a score of zero will be recorded for that lab. There are no make-up labs. Your lowest lab grade will be dropped at the end of the semester.

Closed toed shoes are required in **ALL** laboratories. If you do not wear proper foot attire, you will not be allowed to participate.

If you miss (or fail to complete) 3 labs or more during the semester, your final grade for the semester will be lowered by one letter grade.

For more information pertaining to laboratory, please see the laboratory syllabus.

HOURLY EXAMS:

The 5-hour exams are listed in the course outline. The exams will be a mixture of multiple choice and short answer. **There are no make-up exams.** If you miss an exam, a score of zero will be recorded for that exam, and is not eligible for replacement. At the end of the semester, your final exam score can replace your lowest (non-zero) exam score, if the final exam score is greater. Cell phone must be turned off when taking an exam.

GRADING POLICY: (course grading is subject to change)

Test (50%)

| 5 x 100

| 500


Quizzes (4%)	4 x 10	40
Home Work (5%)	5 x 10	50
Laboratory (26%)	13 x 20	260
Final (15%)	1x 150	150
Total		

CALCULATING YOUR GRADE:

Quiz 1	
Quiz 2	
Quiz 3	
Quiz 4	
Quiz Total	

HW 1	
HW 2	
HW 3	
HW 4	
HW 5	
HW Total	

Test 1	
Test 2	
Test 3	
Test 4	
Test 5	
Final	
Test Total	

Lab 1	Lab 6	Lab 11		RAW TOTAL:
Lab 2	Lab 7	Lab 12		Minus Lowest:
Lab 3	Lab 8	Lab 13		LAB TOTAL:
Lab 4	Lab 9	Lab 14		
Lab 5	Lab 10	Raw Total:		

Test total	
Quiz Total	
Homework Total	
Lab Total	
Total Score	

$(\text{Total Score}/1000) \times 100\% = \text{Your grade!}$

GRADE ALLOTMENT: *CFCC has adopted the following grading scale*

100-92	A	WP – not computed in grade point average
91-84	B	WF – computed as 'F' in GPA
83-76	C	I – Incomplete (paperwork required)
75-68	D	
below 67	F	

OTHER IMPORTANT INFORMATION:

Laptop Computers and Electronic Handheld Devices:

Laptop or tablet computers may be used for taking notes in class as long as their use does not become distracting to other students. However, they must not be used for non-class related activities (Web surfing, email, games, Facebook, etc.) while the class is in session. Cell phone use and texting are not permitted during class or lab. Turn your cell phone off before class starts. Failure to adhere to these guidelines will affect your attendance/class participation grade.

Academic Misconduct:

Cheating will be taken VERY seriously and will not be tolerated. Examples of academic misconduct include but are not limited to:

- Copying another person's work on quizzes, exams, labs or homework assignments
- Using a "cheat sheet" (notes of any kind) during a quiz or exam
- Falsifying data in lab
- Working with another person when instructed to work alone

The first incident of academic misconduct will result in an automatic zero for the assignment for all parties involved. This zero grade will not be dropped or replaced. Any further incident may result in an 'F' for the course.

Withdrawals: You are responsible for noting the deadline for withdrawal from the course. I will not turn in any withdrawal forms to the registration office. This is your responsibility. **Withdrawals will not be given once the 18 hours of absences has been exceeded. Please familiarize yourself with the criteria and withdrawal deadline dates in the *CFCC Catalog and Student Handbook***

Accommodation of Special Needs Based on Disability: Any student requesting classroom accommodations because of disability must present documentation to verify his/her disability. Documentation must be furnished to the Disabilities Service Coordinator, and this should be done prior to requesting accommodation by an instructor. On a confidential basis, the student, disabilities services and the instructor will determine the appropriate accommodations which will be provided in a manner that is consistent with the objectives, outcomes, and academic standards of the course. Absences may not exceed any class attendance policy.

Academic Honesty/Plagiarism

Please see Student Catalog for CFCC policy.

Reminder, plagiarism is using as your own the words or ideas of another, whether written or oral. When you use material from a source, you must quote or paraphrase accurately and properly cite the information. Failure to do so is considered plagiarism. Examples of plagiarism include word-for-word copying without correctly indicating that you are quoting, inaccurate quoting and paraphrasing, and incomplete or missing documentation. Purchasing a paper or copying someone else's work and submitting it as your own are also plagiarism. Any misrepresentation of the source in your writing or speaking would constitute a form of plagiarism.

Whether intentional or unintentional, plagiarism is not acceptable and will result in the student being assigned a grade of zero for the assignment and/or the course, at the instructor's discretion.

Expectations for Interaction

Students will be held to the highest standards of language and content in all interaction, whether online or in person. Abusive and derogatory language, actions, or content will not be tolerated. This non-discrimination policy includes face-to-face interactions, email, online discussions and all course related content and materials. To learn more about online interaction, please see "The Core Rules of Netiquette", from the book Netiquette by Virginia Shea at: [http:// www.albion.com/netiquette/corerules.html](http://www.albion.com/netiquette/corerules.html)

myCFCC is your student web portal - there you can access your class websites, email, and WebAdvisor (official academic info such as grades, transcripts, schedules, etc). Your official CFCC-provided email account is to be used for all e-mail correspondence with your instructors and CFCC staff. Some information from CFCC will ONLY be emailed to this address, and not sent through postal mail, so it is very important that you check this account. To access this account, visit the myCFCC portal - there is a link to the portal near the top of the CFCC.edu website. Login and click the Email link. Your username is part of your email address: user@mail.cfcc.edu. (Note if you've had a CFCC email address in the past, this one may differ because we've changed 'email' to 'mail' in the address.) This email account is provided to you as long as you are enrolled in classes (you can take the summer off), and may be used for personal email as well as academic email. The class websites linked from the portal are automatically created for every class - it is up to the instructors to decide whether and how to use them. Even if they are not used, you can send an email to your instructor by clicking the Send Email link on your class homepage.

IT Student HelpDesk

The IT Services Student Helpdesk provides first-level technical support to all students of Cape Fear Community College. They are available to assist students with basic computer and technical needs, including logging into Blackboard, myCFCC and WebAdvisor.

More information, including Hours, Location, and Contact Information is available at:

<http://www2.cfcc.edu/studenthelpdesk/>

Blackboard Help

Answers to common Blackboard questions can be found at <http://www2.cfcc.edu/online/bb-faq> or Ask Ray.

Science Learning Lab N-407

The Science Learning Lab is located in N-407. Tutors are available for all Biology, Chemistry, Geology and Physics courses. You must have your instructor sign a form to verify that you are enrolled in a Science course. The form is available in N-407.

Learning Resource Center (LRC)

The LRC is located in the CFCC library and can be found [online at http://cfcc.edu/learninglab](http://cfcc.edu/learninglab). The LRC provides writing assistance, computer competency skills and tutoring.

Learning Resource Center (Library)

The CFCC Learning Resource Center (Library) provides students with the following resources: Books/Materials, Course Reserves, Computer/Internet Access, Online Databases/Journals, Group Study Space, and a Quiet Study Space.

The Learning Resource Center (Library) is located on the 2nd Floor of the L-Building (Downtown Campus) or on the 1st Floor of the McKeithan Center (North Campus) and can be found online at <http://cfcc.edu/lrc>.

Additional Student Support and Academic Services

For a list of CFCC Student Support and Academic Services, please visit <http://www2.cfcc.edu/online/student-support/>.

Tobacco use is prohibited on all CFCC property.

******The instructor reserves the right, acting within the policies and procedures of Cape Fear Community College, to make changes, adjustments, additions, and deletions in course content, syllabus, or instructional technique, without notice or obligations.***