
Also need: calculator - a good, scientific one that you know how to use and bring to each class meeting. (If there is a test or quiz requiring use of a calculator, you will not be able to use your cell phone as a “calculator.”)

Course Info: An introductory course in chemistry emphasizing theoretical aspects and designed primarily for students who intend to take one or more additional courses in chemistry. Two – 75-minute lectures per week.

Co-requisites: Math 111 (unless exempt), Chemistry 111L. [CHEM 111L is a co-requisite course. You must either be concurrently enrolled in the lab or else have already passed the lab. If either is dropped both must be dropped. The two courses (CHEM 111 & 111L) are graded independently of each other.]

Chem 111 Learning Outcomes:
- Describe how to employ the scientific method
- Solve chemistry problems by employing mathematical techniques and chemical reasoning
- Understand how atoms interact covalently and non-covalently to form molecules and compounds
- Identify the properties of compounds
- Employ an understanding of chemical reactivity to analyze chemical reactions

General Education Learning Outcomes:
- Students apply physical/natural principles to analyze and solve problems.
- Students will develop an understanding of the impact that science has on society.
(Note: These will be assessed in the second semester course of the Science Gen Ed Sequence, Chem 112)

Electronics Policy: All texting devices and cell phones must be put away during class. There are no computers allowed in class. Failure to adhere to this policy will affect your class participation/behavior grade. The only electronic device I want to see you operating is your calculator.

Attendance: Attendance is expected at all classes. There is strong correlation between attendance and your grade. Students are responsible for all information presented in class whether they are present or not. It is imperative that you attend class and also to arrive promptly. It is extremely rude and discourteous to arrive late. If you arrive late for a quiz, test, or the final exam, instructions may not be repeated and you will not receive additional time to complete the assignment. If you are a student-athlete or away from class due to documented college-related business an accommodation will be made if arrangements are made prior to the absence. After the Drop/Add period any student having more than three unexcused absences will be assigned the grade of "WA" which is equivalent to an "F". Attendance will be take at the beginning of each class period. If there is an extreme reason for your absence, you must notify me in advance and fill out an Absence Memo form at 67 George Street or access a copy of the form on line, print it and fill it out and deliver to it to me with the appropriate documentation. This form must be approved by both me and the Dean of Students and does not guarantee an excused absence.
**How to Prepare for Class:** CHEM 111 is taught with the assumption that students have learned the fundamental concepts covered in a full year of high school chemistry class. You are responsible for all material covered or assigned in class or assigned via the web. If no specific reading or homework assignments are made in class you should minimally read ahead at least several sections and attempt the associated in-chapter problems. I will also post powerpoint presentations on OAKS, which you will be expected to look at prior to class. I will not linger on these slides, but will refer to them during class.

It is absolutely vital that you **keep current in your studies.** My expectation is that for every hour spent in lecture you will spend a minimum of 3 hours of study. I am here to explain the material and help you to the best of my time and ability. However, the burden of learning is upon you, the student. The key to success in this class is working through chemistry problems until you understand the concepts. I encourage you to study with other students, and to collaborate on homework, but not on individually assigned quizzes.

**Extra Help:** Center for Student Learning, (www.cofc.edu/studentlearningcenter/), associated supplemental instruction (SI’s) is pending.

**Homework assignments:**
The key to success in this class is doing chemistry problems again and again. You need to be working problems every single day. The tests will be very similar to problems from the homework. You will be expected to work through the assigned end-of-chapter questions. Homework will be selectively graded or collected. They are the key to your success! It is important for you to put pencil to paper, to actually work out the problems, drawing structures, performing calculations, and naming compounds. As you work the problems, seek to understand the process and not simply to get the correct answer. **I am very willing to help you, but for the most part, learning chemistry is a lonely, time-consuming and difficult lesson in self-discipline.**

**Quizzes:**
There is will be several announced and unannounced quizzes given throughout the semester. Most quizzes will test whether or not you have done the assigned reading and understand the concepts from previous class meetings. Quizzes cannot be made up, though if you have an absence excused by the Dean of Students, you may be allowed to turn in an extra assignment to take the place of any missed quizzes.

**Tests:**
There will be four 75-min exams throughout the semester for each of the sections covered, each being worth 15% of your final grade. Although the tests are not necessarily cumulative, the material in this course builds upon what is learned, that is, in order to understand later material, it is necessary for the student to grasp the previous section’s material. The final exam, however, will be cumulative. There will be NO MAKE-UP tests, unless there are dire circumstances. Your lowest test score (including missed tests) may be replaced by the final grade exam if it is lower.

**Final Exam:**
The comprehensive final exam will cover Chapters 1-11. The Final Exam will be a 110-minute 70-question multiple choice standardized test by the American Chemical Society (ACS). It is written by a board of chemistry professors who are members of the ACS and may include material from the laboratory course. The booklet entitled “Preparation for the Final Exam: L Banks, Preparing for your ACS Examination in General Chemistry, ACS Press” is kept on permanent library reserve and is recommended to help prepare for the final.
Grading:
5% ALEKS Prep Assignment (due Jan 15 at 11pm)
10% Quizzes
60% Tests
5% class participation and behavior
20% Final Exam
(There will be NO extra credit given in this course)

Grading Scale:
93-100    A
90-92    A-
87-89    B+
83-86    B
80-82    B-
77-79    C+
73-76    C
70-72    C-
67-69    D+
63-66    D
60-62    D-
Below 60  F

The Honor Code – the honor system is in effect in all efforts for this course. Cheating will not be tolerated. Please familiarize yourself with the College of Charleston Honor Policy as well as the Department of Chemistry’s policy on Scientific Integrity. By enrolling in this course, you are agreeing to abide by the Departmental policy on Scientific Integrity.

ADA ACCOMMODATION NOTICE - If you have a disability that may prevent you from meeting the course requirements, contact the instructor before the end of the first week to file a student disability statement and to discuss a reasonable accommodation plan. Course requirements will not be waived but accommodations may be made to assist you to meet the requirements, provided you are timely in working with the instructor to develop a reasonable accommodation plan.

Disabilities: If there is a student in this class who has a documented disability and has been approved to receive accommodations through SNAP Services, please feel free to come and discuss this with me during my office hours. If you have been approved for additional testing time, that will need to be arranged in advance with the testing center and you must take the exam at the testing center. Please contact the Center for Disability Services (CDS/SNAP program), located on the first floor of the Lightsey Center, Suite 104, (843) 953-1431, SNAP@cofc.edu
Chemistry 111 Spring 2019 Working Schedule *(subject to change with prior notice)*

<table>
<thead>
<tr>
<th>Date</th>
<th>Chapter</th>
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<tbody>
<tr>
<td>Jan 8</td>
<td>Introduction, Syllabus, Chapter 1</td>
</tr>
<tr>
<td>Jan 10</td>
<td>1 &amp; 2</td>
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<td>Jan 15</td>
<td>2</td>
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<tr>
<td>Jan 17, 22</td>
<td>part of 3</td>
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<tr>
<td>Jan 24</td>
<td>Test# 1 on Chapters 1, 2 &amp; part of 3</td>
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<tr>
<td>Jan 29</td>
<td>second part of 3</td>
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<td>Jan 30, Feb 5</td>
<td>4</td>
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<tr>
<td>Feb 5, 7, 12</td>
<td>5</td>
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<tr>
<td>Feb 14</td>
<td>Test # 2 on Chapters part of 3, 4 &amp; 5</td>
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<td>Feb 19, 21</td>
<td>6</td>
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<td>Feb 21, 26</td>
<td>7</td>
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<td>Feb 28, Mar 5</td>
<td>8</td>
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<tr>
<td>Mar 7</td>
<td>Test # 3 on Chapters 6, 7 &amp; 8</td>
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<td>Mar 12, 14</td>
<td>9</td>
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<tr>
<td>Mar 18 - 22</td>
<td>Spring Break</td>
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<td>Mar 26, 28, Apr 2</td>
<td>10</td>
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<td>Apr 4</td>
<td>Test # 4 on Chapters 9 &amp; 10</td>
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<td>Apr 9, 11</td>
<td>11</td>
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<tr>
<td>Apr 16, 18</td>
<td>part of Chapter 12</td>
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<tr>
<td>Apr 23</td>
<td>Review for Final Exam</td>
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**Tentative Test Dates** – Thurs 1/24, Thurs 2/14, Thurs 3/7, Thurs 4/4

**Final Exam** – 110 min ACS Final Exam (see Exam Schedule for time and date)

**Other important dates:**

- Jan 14 – last day for Drop/Add
- Feb 1 – last day to apply for graduation for Spring 2019
- Feb 28 – Express II classes begin
- Mar 8 – midterm grades available
- Mar 25 – last day to withdraw with a “W”
- Apr 23 – last full day of classes
- Apr 24 – reading day
- May 2 – course-instructor evaluations due at midnight
- May 7 – final grades available
Learning strategies

Class Preparation Strategies:

1. Implement a study schedule to include 3-4 intense study sessions per day.
2. Actively prepare to read by previewing reading assignments.
3. Read actively by developing questions before you start to read.
4. Paraphrase information in each paragraph/section of a reading assignment.
5. Actively read and learn by using flashcards, concept maps, chapter maps, and other tools.
6. Always attend every class.
7. Take good notes by hand.
8. Preview and Review for every class.
9. Ask and answer questions and actively participate in class.
10. Do HW assignments without using examples or textbook information.
11. Prepare as if you have to teach the information you are learning.
12. Study with a partner or study group, go to each session prepared.
13. Create practice exams to evaluate your mastery of the material.
14. Start HW the day it is assigned as do a little of it each day.
15. Memorize everything you are told to memorize.
16. Aim for 100% mastery of the material.
17. Use on-campus resources.
18. Visit SI sessions and/or your professors’ office hours on a regular basis.

Test Strategies:

19. Organize test information by preparing charts, outlines, or a study guide.
20. Write down formulas or other information you may need before you begin an exam.
21. Read directions VERY carefully, listen to directions, and ask for clarification.
22. Survey the exam before starting and budget your time.
23. Begin with the easiest questions and work your way to the harder ones.
24. Expect memory blocks and recognize that information will come back to you if you move on to
   other questions, so don’t get stuck!
25. Perform deep breathing to relax, and use positive self-talk to reduce test anxiety.
26. Analyze all returned tests and quizzes, and develop a plan for improvement.

General strategies:

27. Adopt a growth mindset about intelligence.
28. Monitor your self-talk and stay positive.
29. Attribute results to action, not ability.
30. Know and understand your learning style and preferences.
32. Keep a calendar and check-list.
33. Commit to studying 20-25 hours per week.
34. Protect your free time.
35. Prioritize your needs and wants.

(adapted from Saundra and Stephanie McGuire’s Strategies for students)