COURSE PREREQUISOTES OR CO-REQUISTES: Corequisite: Chemistry 111L. 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. The last day to drop with a grade of "W" is Friday March 13, 2020.

PLEASE NOTE: CHEM 111 LABS START TUESDAY JANUARY 14

REQUIRED MATERIALS
- Electronic Textbook & Learning System: ALEKS 360 Chemistry: Atoms First, 3rd edition, Burdge &Overby (will also be used for CHEM 112) ALEKS 360 Code : KFKM6-3CKVU
- Non-programmable calculator that can perform exponents and logarithms (~$15); bring this calculator to all class meetings
- Reliable internet access

MATH COMPETENCY
Competency is assumed at the level of MATH 111 which includes basic algebra and graphing. It is also assumed that you have had some prior chemistry in high school. If you have not, you may wish to consider taking CHEM 103 as a prep to this course. This course will be offered during Express 2.

ACADEMIC SUPPORT SERVICES
The Center for Student Learning (CSL), is located on the first floor of Addlestone Library, and offers a wide variety of tutoring and other academic resources. Make use of the Math Lab and the Science Lab as needed. Supplemental Instruction (SI) is offered in conjunction with this section of CHEM 111. SI sessions give students a chance to work together with trained SI leaders to discuss course concepts, develop strategies for studying course material, work problems, and review notes. Courtney Walsh will be our SI leader. All services are described and lab schedules are posted on the CSL website (http://csl.cofc.edu).

INSTRUCTIONAL OBJECTIVES
1. Students will understand the fundamental principles of the structure of matter, its properties, and reactions.
2. Students will learn about the application of chemistry to their everyday lives.
3. Students will gain an understanding of the language and symbolism used by chemists.
4. Students will have an appreciation of the impact of chemistry on our world.
5. Students will be prepared to pursue further studies in chemistry.

STUDENT LEARNING OUTCOMES:
1. Describe how to employ the scientific method
2. Solve chemistry problems by employing mathematical techniques and chemical reasoning
3. Understand how atoms interact covalently and non-covalently to form molecules and compounds
4. Identify the properties of compounds
5. Employ an understanding of chemical reactivity to analyze chemical reactions

STUDENT LEARNING OUTCOMES FOR NATURAL SCIENCES GENERAL EDUCATION COURSES
are assessed in the second semester of the two-course sequence CHEM 111/112.
1. Students apply physical/natural principles to analyze and solve problems.
2. Students demonstrate how science impacts society.
ACCOMMODATIONS FOR STUDENTS WITH DISABILITIES Any student eligible for and needing accommodations because of a disability is requested to speak with the professor during the first two weeks of class or as soon as the student has been approved for services so that reasonable accommodations can be arranged.

HONOR CODE AND ACADEMIC INTEGRITY
Lying, cheating, attempted cheating, and plagiarism are violations of our Honor Code that, when identified, are investigated. Each incident will be examined to determine the degree of deception involved.

Incidents where the instructor determines the student’s actions are related more to a misunderstanding will handled by the instructor. A written intervention designed to help prevent the student from repeating the error will be given to the student. The intervention, submitted by form and signed both by the instructor and the student, will be forwarded to the Dean of Students and placed in the student’s file.

Cases of suspected academic dishonesty will be reported directly by the instructor and/or others having knowledge of the incident to the Dean of Students. A student found responsible by the Honor Board for academic dishonesty will receive a XF in the course, indicating failure of the course due to academic dishonesty. This grade will appear on the student’s transcript for two years after which the student may petition for the X to be expunged. The student may also be placed on disciplinary probation, suspended (temporary removal) or expelled (permanent removal) from the College by the Honor Board.

Students should be aware that unauthorized collaboration--working together without permission-- is a form of cheating. Unless the instructor specifies that students can work together on an assignment, quiz and/or test, no collaboration during the completion of the assignment is permitted. Other forms of cheating include possessing or using an unauthorized study aid (which could include accessing information via a cell phone or computer), copying from others’ exams, fabricating data, and giving unauthorized assistance.

Research conducted and/or papers written for other classes cannot be used in whole or in part for any assignment in this class without obtaining prior permission from the instructor.

Students can find the complete Honor Code and all related processes in the Student Handbook at http://studentaffairs.cofc.edu/honorsystem/studenthandbook/index.php.

ATTENDANCE POLICY
1. Attendance is expected at all classes.
2. Students are responsible for all information presented in class whether they are present or not.
3. 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.
4. NO MAKE-UP QUIZZES OR TESTS ARE GIVEN UNLESS PRIOR PERMISSION IS GRANTED. It is possible to arrange to take a test or quiz early. If you are a student-athlete, away from class due to other documented college-related business, or there is a conflict with a recognized religious holiday of your faith, an accommodation will be made if arrangements are made prior to the absence. Exceptions for other reasons are granted only for the most extenuating circumstances and only if requested prior to the class where the quiz or test is administered. For bad weather incidents please check OAKS for alternative delivery methods.
5. Please note that an Absence Memorandum from Health Services/Undergraduate Academic Services only verifies your documentation for missing a class. It does not entitle you to make up or be excused from any work, assignment, quiz, or test. You should obtain notes from a classmate, read the associated material in the text, and then come ask questions. If you miss picking up a graded quiz or test you should pick it up from my office as expeditiously as possible.

If the College of Charleston closes and members of the community are evacuated due to inclement weather, students are responsible for taking course materials with them in order to continue with course assignments consistent with instructions provided by faculty. In cases of extended periods of institution-wide closure where students have relocated, instructors may articulate a plan that allows for supplemental academic engagement despite these circumstances.
OAKS is the Learning Management System used by the College of Charleston. It is accessed via mycofc.edu. It is where you may find the syllabus and ancillary course material that supplements the text and lecture (PowerPoint slides, answer keys, etc.) You should check the “News” section at least once between every class meeting.

<table>
<thead>
<tr>
<th>Grading Policy</th>
<th>Percentage</th>
<th>Letter Grade</th>
<th>Grade Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grading Scale</td>
<td>92-100</td>
<td>A</td>
<td>4.0</td>
</tr>
<tr>
<td></td>
<td>88-92</td>
<td>A-</td>
<td>3.7</td>
</tr>
<tr>
<td></td>
<td>84-88</td>
<td>B+</td>
<td>3.3</td>
</tr>
<tr>
<td></td>
<td>80-84</td>
<td>B</td>
<td>3.0</td>
</tr>
<tr>
<td></td>
<td>78-80</td>
<td>B-</td>
<td>2.7</td>
</tr>
<tr>
<td></td>
<td>74-78</td>
<td>C+</td>
<td>2.3</td>
</tr>
<tr>
<td></td>
<td>70-74</td>
<td>C</td>
<td>2.0</td>
</tr>
<tr>
<td></td>
<td>68-70</td>
<td>C- ***</td>
<td>1.7</td>
</tr>
<tr>
<td></td>
<td>66-68</td>
<td>D+ ***</td>
<td>1.3</td>
</tr>
<tr>
<td></td>
<td>62-66</td>
<td>D ***</td>
<td>1.0</td>
</tr>
<tr>
<td></td>
<td>60-62</td>
<td>D-</td>
<td>0.7</td>
</tr>
<tr>
<td></td>
<td>Below 60</td>
<td>F</td>
<td>0</td>
</tr>
</tbody>
</table>

### Grading Scheme

**ALEKS 360**

- **10 %**
  - ALEKS 360 will be the main learning tool used with the class. This is a required purchase and will be used extensively throughout the semester. You may purchase a copy of the printed book if you like, but it is not required. It is best to do some ALEKS 360 every day. Deadlines will be posted on ALEKS 360 and will be modified to keep pace with the lecture. The code for this course is **KFKM6-3CKVU**.

**Quizzes/Projects**

- **10 %**
  - This includes in-class quizzes, OAKS quizzes, and several projects. If you miss a quiz or submit a project late it will be a zero. However, your lowest quiz/project grade will be dropped. There is a quiz on OAKS to take regarding the course syllabus.

**Tests**

- **60 %**
  - Your lowest test grade will be replaced by your final exam grade if it is higher than your lowest test grade (e.g. if you miss a test it is a zero; however, in its place will be put the grade for the final exam). Any consideration for a make-up exam must be submitted prior to the administration of the test. Material throughout the semester is cumulative. All tests may cover material from the start of the semester.

**Final Exam**

- **20 %**
  - The final exam is cumulative over the entire semester and is a timed 110-minute American Chemical Society Standardized test. Do *NOT* be late. You should be on campus at least 30 minutes before the start of the final and should plan on being in your seat at least 5 minutes prior to the start of the final exam. If you arrive late you will not be given additional time and instructions may not be repeated. Final grades will be posted on mycofc.edu. Requests for an alternate final exam time must be processed per college regulations no later than 5 p.m. on the last day of class. Failure to take the final exam will result in a grade of "X" which turns to an "F" after 48 hours. A departmental grading scale is used for the final.

**Extra Credit**

- **0 %**
  - Your grade is based solely on the items listed elsewhere in this syllabus.
TIPS FOR SUCCESS
1. Take responsibility for all material covered or assigned in class or assigned electronically.
2. Come to class. There are 168 hours in each week. You only have to devote 2.5 of them to coming to class.
3. Check the website in between each class for any updates.
4. Make at least one friend in the class with whom you can share notes if one of you is absent. Being part of a study group is a good strategy.
5. If no specific reading assignment is made in class, you should minimally read ahead at least 3 sections in the e-book.
6. Keep current in your studies. Do *not* fall behind. Do not cram. You should do some ALEKS 360 every day.
7. Quizzes and tests are cumulative. Failure to learn material at any point in the semester can negatively impact your performance later in the semester. It will also affect your performance on ALEKS 360.
8. Check answer keys of quizzes and tests to see what and why you missed a question.
9. Come see Dr. D if you have questions or concerns.
10. Spend 2-3 hours of study for each hour that you are in lecture which equates to 6-9 hours per week. It may require more time to understand and master the material. In your admittance to CofC you have proved that you have lots of ability. If you are willing to invest the time, you will learn an amazing amount, and be extremely pleased with what you accomplish. If you chose not to invest the time, you will not do well in this course.
11. Think about your learning. This is called metacognition. There are three videos in the Learning Chemistry Folder beneath the Flipped Classroom section under the Content tab on OAKS. A quiz on OAKS is associated with this material.

LECTURE SCHEDULE
We will cover Chapters 1-11 in the text, in order. Check OAKS for continual updates.

<table>
<thead>
<tr>
<th>Day</th>
<th>Date</th>
<th>Test #</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>W</td>
<td>Jan 8</td>
<td></td>
<td>First Day of Class</td>
</tr>
<tr>
<td>W</td>
<td>Jan 15</td>
<td></td>
<td>Drop/Add closes at 5 PM</td>
</tr>
<tr>
<td>F</td>
<td>Jan 24</td>
<td>Test 1</td>
<td></td>
</tr>
<tr>
<td>W</td>
<td>Feb 12</td>
<td>Test 2</td>
<td></td>
</tr>
<tr>
<td>Sat</td>
<td>Feb 15</td>
<td>Test 3</td>
<td>Designated Storm Make-Up Day – if needed</td>
</tr>
<tr>
<td>W</td>
<td>March 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>March 13</td>
<td></td>
<td>Last day to withdraw with a &quot;W&quot; from full semester classes</td>
</tr>
<tr>
<td>M-F</td>
<td>Mar 16-20</td>
<td></td>
<td>Spring Break; No Class</td>
</tr>
<tr>
<td>F</td>
<td>Mar 27</td>
<td>Test 4</td>
<td></td>
</tr>
<tr>
<td>W</td>
<td>April 15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>W</td>
<td>Apr 22</td>
<td>Test 5</td>
<td>Last Day of Class for this course.</td>
</tr>
<tr>
<td>R</td>
<td>Apr 23</td>
<td></td>
<td>Reading Day / Storm Make-Up Day</td>
</tr>
<tr>
<td>F</td>
<td>Apr 24</td>
<td>Cumulative Final Exam</td>
<td></td>
</tr>
</tbody>
</table>

EMAIL
This is the best way to contact me. Please start the subject line of all emails to me with “CHEM 111” and then add any further descriptor that you wish. Except on weekends, if you do not receive a response from me within 24 hours that means that most likely I did not receive your e-mail, so please try again. Weekend emails may not be answered until Monday. Email via your CofC-issued email account is considered an official method for communication at the College of Charleston. Students are expected to check their College of Charleston official email on a daily basis. Students have the responsibility to recognize that certain communications may be time-critical. “I didn't check my email”, error in forwarding email, or email returned to the College with “Mailbox Full” or “User Unknown” are not acceptable excuses for missing official College communications via email.

FACEBOOK The Department of Chemistry and Biochemistry has a Facebook page. It is used to announce opportunities for students (https://www.facebook.com/#!/CofC.Chemistry).

TWITTER The School of Sciences Mathematics can be followed @CofCSSM.

The syllabus is subject to change by the professor. All changes will be announced in class and posted on OAKS.