CHEM 111-01
Principles of Chemistry I

Fall 2021
SSMB 129  9:00-9:50AM

Dr. James P. Deavor
deavorj@cofc.edu

ALEKS 360 Code: LFVVP-9V9QD

843.953.8095
Office: SSMB 324

Zoom Office Hours:
MTR 2:00-3:00 and by appointment

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

Revised 8/23/2021

COURSE PREREQUISITES OR CO-REQUISITES: 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 October 29, 2021.

PLEASE NOTE: CHEM 111 LABS START Monday August 30

REQUIRED MATERIALS
- Electronic Textbook & Learning System: ALEKS 360 Chemistry: Atoms First, 4th edition, Burdge & Overby (will also be used for CHEM 112) ALEKS 360 Code: LFVVP-9V9QD
- A calculator that can perform exponents and logarithms (~$15); bring this calculator to all class meetings
- A laptop or desktop computer and 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. Layne Leggett will be our SI leader. All services are described and lab schedules are posted on the CSL website (http://csl.cofc.edu).

COVID-19
Respect for Others. For the health and safety of yourself and those around you, you are required to wear a face-covering over both your nose and mouth while inside all campus buildings. Also remember that students, faculty, and staff should not come to campus when they feel unwell.

If one or more students are absent for an extended period of time due to COVID-19 (quarantine or isolation), the class may have to be conducted exclusively online. Please be safe outside of class for your benefit and for the benefit of the entire CofC community.

Please keep at least one seat open between you and the next student while in class.

Office hours will be conducted only by zoom: https://cofc.zoom.us/j/85169252222

https://cofc.edu/back-on-the-bricks/
ATTENDANCE POLICY
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 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.

Do not come to class if you are in quarantine or isolation or if you do not feel well. Contact Dr. D. prior to class and he will activate the zoom link for you.

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.

MODE OF INSTRUCTION  In real time, in class, in person, with masks, keeping an open seat between each student.

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 suspected, 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 misunderstanding and confusion will be handled by the instructor. The instructor designs an intervention or assigns a grade reduction to help prevent the student from repeating the error. The response is recorded on a form and signed both by the instructor and the student. It is forwarded to the Office of 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 XXF in the course, indicating failure of the course due to academic dishonesty. This status indicator will appear on the student’s transcript for two years after which the student may petition for the XX to be expunged. The F is permanent.

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

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 or that it got lost in the daily tsunami of emails, 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.
OAKS is the Learning Management System used by the College of Charleston. OAKS, including Gradebook, will be used for this course throughout the semester to provide the syllabus and class materials and grades for each assignment, which will be regularly posted. 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.

INCLEMENT WEATHER PANDEMIC, OR SUBSTANTIAL INTERRUPTION OF INSTRUCTION
If in-person classes are suspended, faculty will announce to their students a detailed plan for a change in modality to ensure the continuity of learning. All students must have access to a computer equipped with a web camera, microphone, and Internet access. Resources are available to provide students with these essential tools.

OFFICE HOURS
Times for office hours are posted in the header on page 1. Due to COVID they are being held via Zoom. If no one logs in within 15 minutes I reserve the right to log out. Other hours may be made by appointment, so please feel free to do so.

GRADING
This course is being administered using the mastery grading philosophy. Your goal is not to simply get a good grade in the course, but to master the material. Mastery is defined as scoring at least 90% on a module. The primary determinant of your grade is the number of modules that you complete with a grade of 90% or above (the average grade on modules is inconsequential). The table below describes the breakdown for each grade option. You must meet all the specifications in the row to qualify for that particular grade. Plus and minus grades are awarded for exceeding or for not meeting all the specifications (each worth 1/3 letter grade).

<table>
<thead>
<tr>
<th>GRADE*</th>
<th># of modules completed</th>
<th>Midterm*</th>
<th>Final Exam*</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>20</td>
<td>&gt;90%</td>
<td>&gt;90%</td>
</tr>
<tr>
<td>B</td>
<td>19</td>
<td>&gt;80%</td>
<td>&gt;80%</td>
</tr>
<tr>
<td>C</td>
<td>18</td>
<td>&gt;75%</td>
<td>&gt;75%</td>
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<tr>
<td>D</td>
<td>17</td>
<td>&gt;70%</td>
<td>&gt;70%</td>
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<tr>
<td>F</td>
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Note: all students must also score >90% on syllabus quiz and on the Learning Chemistry module

- The Midterm and Final Exam if scoring above or below the specification would each raise or lower the base module gated by 1/3 of a letter grade.

QUIZZES
Each module has an accompanying quiz. You will have an unlimited number of opportunities to take each quiz up until the final exam.

MIDTERM EXAM
The midterm exam will be comprehensive over the first half of the course. The date of the midterm will be announced ~ one week ahead of time. You will have only one attempt taking the midterm. It will be in class, in person.

FINAL EXAM
The final exam will be comprehensive over the entire semester. You will have only one attempt taking the final exam. It will be administered during the time assigned for this class period per the College final exam schedule.

ALEKS/EXTRA CREDIT
ALEKS is an adaptive learning tool. This is the only opportunity for extra credit in the course. By completing a minimum of 90% of the pie you would add 1/3 letter grade to your final grade. ALEKS 360 Code: LFVVVP-9V9QD

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LECTURE SCHEDULE  We will cover Chapters 1-11 in the text, in order. Sections within each chapter may not necessarily be covered in order. Check OAKS for continual updates.

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.