CHEM 101
CHEMISTRY! Better Things for Better Living
Fall 2019
Millersville University of Pennsylvania

Dr. Kathryn Allen • kathryn.allen@millersville.edu • Caputo 317

Course Objectives and Aims

Course Description:
This course is a survey course of chemistry. It is not meant to replace CHEM 110 and is not a pre-requisite for CHEM 110 or 111.

1. To learn why chemistry is relevant, even to non-chemistry majors.
2. To apply some simple chemistry concepts to the world around you to explain the world.
3. To identify scientific problems and analyze them critically.
4. To think critically about policies, beliefs, and information.

This course syllabus outlines the agreement between instructor and student for the duration of the semester. The schedule is subject to change (i.e. due to inclement weather or unforeseen circumstances), but the course policies are NOT.

“Time is the best appraiser of scientific work, and I am aware that an industrial discovery rarely produces all its fruit in the hands of its first inventor.” ~Louis Pasteur

Access to Chemistry LibreTexts. An online open-access textbook at https://tinyurl.com/yxv52vkw

Calculator: CELL PHONES NOT ALLOWED ON TESTS

Computer Access Is Required

D2L™
**COURSE STRUCTURE**

1. **IN-CLASS PARTICIPATION CARDS (200Pts):** These are blank notecards handed out at the beginning of each lecture. You will complete a problem from the previous day’s lecture, written on the board by the instructor, and hand it in as part of your grade. You may not consult your notes, though you are welcome to discuss with your peers. You will be graded on a good-faith attempt, NOT on correctness. Handing in a card with only your name on it will result in 2.5/5 points. You may drop the two lowest participation grades. **In order to obtain a grade of B or higher in this course, you must have at least an 80% for in-class participation cards grade.**

2. **D2L ASSIGNMENTS (200 points):** D2L quizzes are seven questions long with no time limits. You may take them twice. The highest grade will be kept. These must be taken on time. A 50% grade penalty will be applied provided they are taken within 1 week of the due date. A 0% credit will be given if you do not take them within 1 week of their due date. D2L short answer questions and mini-essays will be required. These must be submitted on D2L by the due date. A 50% grade penalty will be applied provided they are completed within 1 week of the due date. A 0% credit will be given if you do not complete them within 1 week. **These must be submitted as .pdf files on D2L labeled, ‘LastName_AssignmentName’**.

3. **EXAMS (4 mid-terms @ 100 Pts each + 1 final @ 200 Pts =600 Pts):** Exams are given during class time on Thursdays. Exams may not be made up except at the instructor’s discretion.

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**CHEM 101 GRADING**

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<thead>
<tr>
<th>Letter Grade</th>
<th>Percentage</th>
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<tr>
<td>A</td>
<td>≥94.0%</td>
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<td>A-</td>
<td>90.0-93.9%</td>
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<td>B+</td>
<td>88.0-89.9%</td>
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<td>B</td>
<td>84.0-87.9%</td>
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<td>B-</td>
<td>80.0-83.9%</td>
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<td>C+</td>
<td>78.0-79.9%</td>
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<tr>
<td>C</td>
<td>74.0-77.9%</td>
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<td>C-</td>
<td>70.0-73.9%</td>
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<td>D+</td>
<td>68.0-69.9%</td>
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<td>D</td>
<td>64.0-67.9%</td>
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<td>D-</td>
<td>60.0-63.9%</td>
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<tr>
<td>F</td>
<td>Below 60.0%</td>
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<tbody>
<tr>
<td><strong>Pre-test/Post-test</strong></td>
<td>20%</td>
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<tr>
<td><strong>Four Mid-Term Exams</strong></td>
<td>40%</td>
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<tr>
<td><strong>In-Class Participation Cards</strong></td>
<td>20% (may drop TWO lowest grades)</td>
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<tr>
<td><strong>Quizzes/D2L assignments</strong></td>
<td>20%</td>
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<tr>
<td><strong>Total Class %</strong></td>
<td>100%</td>
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COURSE EXPECTATIONS

Work lots of problems. Then do more problems!

A minimum rule-of-thumb in study time for each course you are taking should be about 2 hours for each 1 hour spent in class per week. That is, 6 hours of study time outside of class for a typical 3 hour per week lecture course.

Ask questions! There is no such thing as a “dumb” question.

Get help when needed!!! Don’t put it off.

ACADEMIC DISHONESTY

If you break the academic honesty policy of Millersville University, there are severe penalties. A failing grade will be assigned and you may be prosecuted by an Academic Review board.

FALLING BEHIND

Falling behind in a chemistry class by missing lectures is a BAD IDEA!

DISRESPECTFUL LANGUAGE

Students are not allowed to call themselves, or others, ‘stupid’, ‘dumb’, or any other derogatory term.

DISRESPECTFUL BEHAVIOR

Cell phones, headphones, and tablets/smart watches are forbidden during exams. They are prohibited during lecture unless being used to take notes.

Content to be Covered | Exam Schedule
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Why is chemistry relevant? | 
Chemistry the basics | 
The Periodic Table and Atoms | Exam 1 – Sep. 12th
Categorizing Matter | 
Chemical Compounds and Reactions | Exam 2 – Oct. 3rd
Carbon: its properties and value | 
Chemical Reactions Revisited | Exam 3 – Oct. 24th
pH and acids/bases | 
Climate Change and Energy | Exam 4 – Nov. 14th
Food and Biochemistry | 
Nuclear Chemistry | Final Exam – Cumulative: Tuesday Dec. 10th
8-10 am

MORE OF THIS

LESS OF THAT
COURSE POLICIES

ACADEMIC ACCOMMODATIONS

Please see the Office of Learning Services in Lyle Hall (http://www.millersville.edu/learning services/) as soon as possible if you have special learning needs for this class.

SAFE AND PRODUCTIVE ENVIRONMENT

Millersville University and its faculty are committed to assuring a safe and productive educational environment for all students. In order to meet this commitment and to comply with Title IX of the Education Amendments of 1972 and guidance from the Office for Civil Rights, the University requires faculty members to report incidents of sexual violence shared by students to the University’s Title IX Coordinator. The only exceptions to the faculty member’s reporting obligation are when incidents of sexual violence are communicated by a student during a classroom discussion, in a writing assignment for a class, or as part of a University-approved research project.

MAKE-UP POLICIES

Students who miss a mid-term exam will be weighted heavier on their final exam as a make-up. You cannot make up the final exam except for excused absences. There is no makeup for D2L Assignments or Participation cards. Please see the University Attendance Policy for more information. Flexibility in the above policies is at the instructor’s discretion. https://tinyurl.com/y53qn9nw

QUESTIONS????

OFFICE HOURS:
M 11-12 pm; T 2-4 pm; W 2-4 pm