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| Course ID: | Course Title: | Winter 2023 |
| CHE 103 | General Chemistry II | Prerequisite: Chem 30 |
| | | Credits: 3 |

| Class Information | | Instructor Information | | Important Dates | |
|-------------------|----------------------------------|------------------------|--|---|-------------|
| Days: | W/F | Instructor: | Liza Abraham PhD Kristian Caldo PhD | First day of classes: | M., Jan. 9 |
| Time: | 8:15-9:30 | Email: | lbrahim@ambrose.edu Kristian.Caldo@ambrose.edu | Last day to add/drop, or change to audit: | Sun, Jan 22 |
| Room: | A 2131 | Phone: | 403-410-2000 ext.6921 | Last day to request revised exam: | Mon, Mar 13 |
| Lab/ Tutorial: | 3 of hrs/wk | Office: | A2160 | Last day to withdraw from course: | Fri, Mar 31 |
| | T 1:00-4:00 pm R 1:00-4:00 pm | Office Hours: | Open-door policy | Last day to apply for coursework extension: | Mon, Apr 3 |
| Final Exam: | Mon, Apr 24 9:00-12:00 | | | Last day of classes: | Fri, Apr 14 |

Course Description

Focuses on the quantitative aspects of chemistry. Topics include chemical kinetics, equilibrium, acids and bases, solubility and electrochemistry. Instruction will consist of lecture, labs and tutorials.

Textbook (Free on-line edition):

GENERAL CHEMISTRY; Olmsted, Chemistry, 3e, Canadian Edition

https://assets.openstax.org/oscms-prodcms/media/documents/ChemistryAtomsFirst2e-OP_vcRYvTh.pdf

Requirements:

LAB (20%):

If you did not take the [lab safety course](#) this past semester, you will need to do so prior to the first lab; it is available online on the Moodle site. You need to obtain a minimum mark of 80%.

The lab component consists of five labs; three of them involve filling in worksheets and the other two require the submission of a formal lab report.

Please print off the [pre-lab quizzes](#); complete and hand it in prior to the start of each lab to the lab instructor. Students that do not have appropriate laboratory attire or incomplete pre-laboratory assignments will not be allowed to proceed with the lab due to safety reasons.

A mark of less than 50% in the laboratory component and/or on the weighted average of the midterm and final examinations will result in a final grade of no greater than D. Completion and submission of reports for fewer than three laboratory experiments will result in a final grade of no greater than D. A grade of D does not satisfy the pre-requisite requirements for further chemistry courses or admission to programs in Biology.

You are not allowed to use phone as your calculator; you must use a calculator to do all your work.

TUTORIALS (10%):

The labs and tutorials alternate every week. Please refer to the syllabus for the dates. During each tutorial, students will work in groups of 3-4 on a set of problems before writing an individual quiz. There will be approximately 5-6 tutorial quizzes.

Attendance:

Class participation is extremely important to your learning in this course. If you miss any class, please make sure to complete the notes from your peers. In respect to the professor and to your fellow students, we ask that you:

- a) Turn your phone off during class and that you don't use it for texting during lecture, tutorial or lab;
- b) Not have conversations with the people beside you during lecture – it is very distracting to the people around you;
- c) Use your laptops for lecture material and assignments only – that you are not using the internet or Facebook during class time;
- d) Arrive to lecture, lab and tutorial on time; you will not be permitted in the lab if you miss the pre-lab talk;

Grade Summary:

The available letters for course grades are as follows:

| <u>Letter Grade</u> | <u>Description</u> |
|---------------------|--------------------|
| A+ | |
| A | Excellent |
| A- | |
| B+ | |
| B | Good |
| B- | |
| C+ | |
| C | Satisfactory |
| C- | |
| D+ | |
| D | Minimal Pass |
| F | Failure |

| A+ | A | A- | B+ | B | B- |
|------------|--------------|--------------|--------------|--------------|--------------|
| 95% - 100% | 87% - 94.99% | 82% - 86.99% | 77% - 81.99% | 72% - 76.99% | 66% - 71.99% |

| C+ | C | C- | D+ | D | F |
|--------------|--------------|--------------|--------------|--------------|----------|
| 62% - 65.99% | 58% - 61.99% | 54% - 57.99% | 50% - 53.99% | 45% - 49.99% | < 44.99% |

Because of the nature of the Alpha 4.00 system, there can be no uniform University-wide conversion scale. The relationship between raw scores (e.g. percentages) and the resultant letter grade will depend on the nature of the course and the instructor's assessment of the level of each class, compared to similar classes taught previously.

Please note that final grades will be available on the student registration system. Printed grade sheets are not mailed out.

In determining the overall grade in the course, the following weights will be used:

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|-----------------------------|-----|
| Laboratory Experiments | 20% |
| In-Class Participation | 10% |
| Saponin Poster Presentation | 5% |
| Tutorial Quizzes | 5% |
| Term Test I | 15% |
| Term Test II | 15% |
| Final Examination | 30% |

Ambrose Tutoring Services

To help you succeed in this course, Ambrose offers FREE tutoring! You can meet with an experienced peer tutor—someone who has already taken and excelled in this course—for help with understanding and applying concepts. To book an appointment, visit <https://ambrose.edu/tutoring>, and click on the appropriate discipline. Scroll down to find tutors that are eligible to tutor for this course, and then click on “Book Now.” Please book at least 24 hours in advance.

For science courses, Ambrose Tutoring Services also offers drop-in study sessions, where students can come by, individually or in groups, to ask questions or work with a tutor. Check out the schedule at <https://ambrose.edu/tutoring>, under the “Science” tab.

Ambrose Writing Centre

To demonstrate your knowledge of our course content, you will need to communicate clearly and persuasively. For help with doing research, understanding your textbooks, or writing papers and presentations, I would encourage you to visit the Ambrose Writing Centre (<https://ambrose.edu/writingcentre>). Writing Centre tutors can help at any stage of an assignment, whether you’re brainstorming ideas or polishing your grammar. To be sure you’ll get a spot, you can book an appointment online at least 24 hours in advance. If you do not have an appointment, do not worry: you can also drop by during regular writing center hours

Course Schedule: (Tentative Lecture / Tutorial / Laboratory Schedule)

| Week of | Lecture | Tutorial | Lab |
|----------|--|---------------------|--|
| Jan 9 | Chemical Kinetics | No Tutorial | No Lab |
| Jan 16 | Chemical Kinetics | Tutorial 1/Quiz 1 | No Lab |
| Jan 23 | Chemical Equilibria: | No Tutorial | Lab 1: Determination of Total Hardness of Water |
| Jan 30 | Chemical Equilibria | Tutorial 2/Quiz 2 | No Lab |
| Feb 6 | Chemical Equilibria | No Tutorial | Lab 2: Chemical Kinetics |
| Feb 13 | Chemical Equilibria Term Test 1 Feb 15 | Tutorial 3/Quiz 3 | No Lab |
| Feb 20 | Reading Week | No Tutorial | No Lab |
| Feb 27 | Aqueous Equilibria | No Tutorial | Lab 3: UV Spectrophotometry |
| March 6 | Aqueous Equilibria | Tutorial 4/Quiz 4 | No Lab |
| March 13 | Aqueous Equilibria | No Tutorial | Lab 4: Determination of the Equilibrium Constant |
| March 20 | Electrochemistry Term Test March 22 | Tutorial 5/Quiz 5 | No Lab |
| March 27 | Electrochemistry March 29 ARC | No Tutorial | Lab 5: Saponin lab |
| April 3 | Electrochemistry | Poster Presentation | No Lab |
| April 10 | Last Day of Classes: Fri, Apr 14 Final Exam: Apr 24 | Final Exam Review | No Lab |
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Ambrose University Academic Policies:

Communication

All students have received an Ambrose e-mail account upon registration. It is the student's responsibility to check this account regularly as the Ambrose email system will be the professor's instrument for notifying students of important matters (cancelled class sessions, extensions, requested appointments, etc.) between class sessions. If students do not wish to use their Ambrose accounts, they will need to forward all messages from the Ambrose account to another personal account.

Registration

During the **Registration Revision Period** students may enter a course without permission, change the designation of any class from credit to audit and /or voluntary withdraw from a course without financial or academic penalty or record. Courses should be added or dropped on the student portal by the deadline date; please consult the List of Important Dates. After that date, the original status remains and the student is responsible for related fees.

Students intending to withdraw from a course after the Registration Revision Period must apply to the Office of the Registrar by submitting a "Request to Withdraw from a Course" form or by sending an email to the Registrar's Office by the **Withdrawal Deadline**; please consult the List of Important Dates on the my.ambrose.edu website. Students will not receive a tuition refund for courses from which they withdraw after the Registration Revision period. A grade of "W" will appear on their transcript.

Students wishing to withdraw from a course, but who fail to do so by the applicable date, will receive the grade earned in accordance with the course syllabus. A student obliged to withdraw from a course after the Withdrawal Deadline because of health or other reasons may apply to the Registrar for special consideration.

Exam Scheduling

Students, who find a conflict in their exam schedule must submit a Revised Examination Request form to the Registrar's Office by the deadline date; please consult the List of Important Dates. Requests will be considered for the following reasons only: 1) the scheduled final examination slot conflicts with another exam; 2) the student has three final exams within three consecutive exam time blocks; 3) the scheduled final exam slot conflicts with an exam at another institution; 4) extenuating circumstances. Travel is not considered a valid excuse for re-scheduling or missing a final exam.

Electronic Etiquette

Students are expected to treat their instructor, guest speakers, and fellow students with respect. It is disruptive to the learning goals of a course or seminar and disrespectful to fellow students and the instructor to use electronics for purposes unrelated to the course during a class session. Turn off all cell phones and other electronic devices during class. Laptops should be used for class-related purposes only. Do not use iPods, MP3 players, or headphones. Do not text, read, or send personal emails, go on Facebook or other social networks, search the internet, or play computer games during class. Some professors will not allow the use of any electronic devices in class. The professor has the right to disallow the student to use a

laptop in future lectures and/or to ask a student to withdraw from the session if s/he does not comply with this policy. Repeat offenders will be directed to the Dean. If you are expecting communication due to an emergency, please speak with the professor before the class begins.

Academic Policies

It is the responsibility of all students to become familiar with and adhere to academic policies as stated in the Academic Calendar. Personal information (information about an individual that may be used to identify that individual) may be required as part of taking this class. Any information collected will only be used and disclosed for the purpose for which the collection was intended. For further information contact the Privacy Compliance Officer at privacy@ambrose.edu.

Extensions

Although extensions to coursework in the semester are at the discretion of the instructor, students may not turn in coursework for evaluation after the last day of the scheduled final examination period unless they have received permission for a course Extension from the Registrar's Office. Requests for course extensions or alternative examination time must be submitted to the Registrar's Office by the deadline date; please consult the List of Important Dates. Course extensions are only granted for serious issues that arise "due to circumstances beyond the student's control."

Appeal of Grade

An appeal for change of grade on any course work must be made to the course instructor within one week of receiving notification of the grade. An appeal for change of final grade must be submitted to the Registrar's Office in writing and providing the basis for appeal within 30 days of receiving notification of the final grade, providing the basis for appeal. A review fee of \$50.00 must accompany the appeal. If the appeal is sustained, the fee will be refunded.

Academic Integrity

We are committed to fostering personal integrity and will not overlook breaches of integrity such as plagiarism and cheating. Academic dishonesty is taken seriously at Ambrose University as it undermines our academic standards and affects the integrity of each member of our learning community. Any attempt to obtain credit for academic work through fraudulent, deceptive, or dishonest means is academic dishonesty. Plagiarism involves presenting someone else's ideas, words, or work as one's own. Plagiarism is fraud and theft, but plagiarism can also occur by accident when a student fails or forgets to acknowledge to another person's ideas or words. Plagiarism and cheating can result in a failing grade for an assignment, for the course, or immediate dismissal from the university. Students are expected to be familiar with the policies in the current Academic Calendar that deal with plagiarism, cheating, and the penalties and procedures for dealing with these matters. All cases of academic dishonesty are reported to the Academic Dean and become part of the student's permanent record.

Note: Students are strongly advised to retain this syllabus for their records.