

Chem1050 Course Syllabus Fall 2020

Chemistry for Citizens (Online)

Chemistry 1050

Prerequisite: Basic algebra

Instructor: Dr. Danzhu Wang

Office: Room 215 in Courtland North Building

Online Office Hours: T/W 1:30 pm – 2:30 pm through WebEx EVERYWEEK (Require sign up from icollege).

Email reply: Email to dwang19@gsu.edu. Emails will be replied within 24 hours during the week day. If you sent emails during the weekend, will be replied by Monday.

Communicating with Instructor:

E-mail: dwang19@gsu.edu

Step 1. Send email from **your GSU** email account **only**,

Step 2. “Your name and Chem1050” **ON SUBJECT LINE**

Failure to do so will result in the loss of your message.

Textbook and required online participation:

1. **Text Book and Audio presentation (Mandatory to use)** – “An Introduction to Chemistry - Atoms First”; by Mark Bishop, Chiral Publishing Company.

This textbook is available **online and FREE (click or copy the link):**

http://preparatorychemistry.com/Bishop_Atoms_First.htm

You don't have to pay 20\$ to use online as shown on website, but up to you.

2. **icollege (Mandatory to use)** – Online quizzes and exams, workshops (all useful info and online office hours will be on icollege)

3. **EdPuzzle (Mandatory to use)** – Extra instructional videos are available **online and Free** (click or copy the link to register for our class, please **use your Full name (Last, first name) to register, DO NOT use panther ID or nickname for registration**)

<https://edpuzzle.com/join/zizmigg>

Class code: zizmigg

4. Online quizzes/exams, workshop, and activities: **icollege** through GSU or google “icollege.gsu.edu”

All assessments are online. No make-up tests or quizzes are given. The final exam will be comprehensive exam.

Students are expected to **follow all announcements and schedule of activities as they will be listed in your syllabus.** The basic ideas and principles on these exams come from the book and lecture material

and are designed to test a student's: 1) understanding of the concepts and 2) ability to solve problems, as well as 3) knowledge of the facts. In general, quizzes and exams are designed so that the majority of questions are of medium difficulty, some are relatively easy and some are challenging.

Course Description

Chemistry is involved with so many things and events one encounters in daily life that it is unwarranted ignorance and poor citizenship if one does not know how they come about. Chemistry is behind many things one uses and comes across every day. Items such as cosmetics and fragrances, food preservatives and diets, plastics, petroleum, coal, pesticides and pollution, medicine, drugs, herbs, diseases, virus, and AIDS, all have intriguing chemistry behind them. Above all, any living organism is essentially an intricate chemical system in which the fundamental units, the cells, sustain and reproduce themselves by being the most efficient and brilliant chemists the universe has ever known. This course will give you the background to begin to learn the principles of chemistry and to help you to have a working understanding of the many things happening around us and within us. In addition, quantitative aspects of chemistry will be introduced to so the students will be better prepared for general chemistry.

Learning Outcomes

After studying all materials, the student will be able to:

1. Understand the basic principles of chemical science and to understand how chemistry knowledge is acquired.
2. Solve the quantitative calculations in chemistry and prepared for general chemistry.

Steps for study online Chem 1050

You will be expected to have done all of the following before taking a quiz or test for credit in ICollege. Follow steps

- A) Check your GSU Email and ICollege daily to make sure you don't miss any announcement
- B) Read the Chapter-Check-List (CCL) for each chapter on ICollege
- C) Read the chapter from E-book based on CCL
- D) Study the power points provided in ICollege
- E) Go to Edpuzzle of our class to obtain more videos
- F) Complete workshops from the ICollege to prepare Exams

TENTATIVE SCHEDULE OF LECTURES AND ACTIVITIES AT A GLANCE

WEEK & DATE (Modules)	Chapters and Lectures	Activities
Week 1 Aug 24-28 Module 1	Course orientation And Chapter 1	Return survey and statement during first week to earn helping pts ☺ (email to dwang19@gsu.edu . Be careful to use correct email address, DO NOT SENT TO "dwang19@student.gsu.edu") Subject line: Chem1050 statement
Week 2 Aug 31- Sept 4 Module 2	Chapter 2	Quiz 1 (Chapters 1-2) available on icollege Sept 4-6
Week 3 Sept 7-11 Module 3	Chapter 3	Quiz 2 (Chapter 3) available on icollege Sept 11-13
Week 4 Sept 14-18 Module 4	Chapter 4	Exam 1(Chapter 1, 2, and 3) available on icollege Sept 18-20
Week 5 Sept 21-25 Module 5	Chapter 5	Quiz 3 (Chapter 4) available on icollege Sept 25-27
Week 6 Sept 28-Oct 2 Module 6	Chapter 6	Quiz 4 (Chapter 5) available on icollege Oct 2-4
Week 7 Oct 5-9 Module 7	No new chapter	Exam 2 (Chapter 4 and 5) available on icollege Oct 9-11
Week 8 Oct 12-16 Module 8	Chapter 7	Quiz 5 (Chapter 6) available on icollege Oct 16-18
Oct 13		If drop class, to receive "WP" no later than Oct 13 at 5:00 pm!!!

Week 9 Oct 19-23 Module 9	Chapter 8	Quiz 6 (Chapter 7 and 8) available on icollege Oct 23-25
Week 10 Oct 26-30 Module 10	Chapter 9	Exam 3 (6, 7 and 8) available on icollege Oct 3 - Nov 1
Week 11 Nov 2-6 Module 11	Chapter 10	Quiz 7 (Chapter 9 and 10) available on icollege Nov 6-8
Week 12 Nov 9-13 Module 12	Chapter 11	Quiz 8 (Chapter 11) available on icollege Nov 13-15
Week 13 Nov 16-20 Module 13	Chapters Done! ☺	Exam 4 (Chapter 9, 10 and 11) available on icollege Nov 20-29
Nov 23-27	Holiday	No class this week ☺
Week 14 Nov 30-Dec 4 Module 14	Review week	Final Exam available on icollege Dec 4 – Dec 7

Semester Midpoint: Oct 13 Final Exam: Dec 4-7 on icollege

Point Distribution

Best 3 of 4 tests (100*3)	300
Best 7 of 8 quizzes (7*10) + videos (30)	100
Final exam (Department standardized test)	100
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Total	500

Grading:

<u>%</u>	<u>Grade</u>
97-100	: A ⁺
90-96	: A
87-89	: A-
85-86	: B+

Grades displayed are percentages
Final Grades are out of 500 total pts.

80-84 : B
78-79 : B-
73-77 : C+
65-72 : C
60-64 : C-
57-59 : D
<57 : F

No make-up examinations or quizzes will be given. Missed examinations will be recorded as a **zero regardless of the reason for absence as the lowest score will be dropped.** The final examination is a standardized, *multiple choice* examination provided by the Department and is normalized. **The Final exam score will not be dropped.**

Class Preparation: Chemistry is a highly structured course. Each topic is based on others previously developed, so it is important that students consistently keep up to date in their studies and assignments.

The best way to learn Chemistry is to work lots of problems!! Definitions must be learned, but to define new terms is only the first step. You will need to learn to work with new concepts, units and principles which are the subjects of end of chapter problems. These problems assume mastery of pertinent definitions and are designed to test your knowledge of the material studied, as well as give an indication of the level of understanding expected of you. Work the problems at the end of each chapter until you are able to solve them without reference to notes or text. Unless otherwise indicated, problems will not be taken up and graded. If problem solving is difficult for you, a helpful book is Programmed Problem Solving for First Year Chemistry by A. B. Loebel.

Planning ahead is a key to success. Your performance in science is a lot better when you study daily. Do not wait until the night before the quiz or exam to begin studying. As you read the material, you must take written notes and underline. Use highlighters or color pens. That will help you throughout the semester and to study for the final. Use the office hours: I cannot help you if you do not approach me with your concerns.

*Your constructive assessment of this course plays an indispensable role in shaping education at Georgia State. Upon completing the course, please take time to fill out the online course evaluation.

Students missing an exam will be expected to submit a written note explaining why the exam was missed. Any student presenting falsified documentation will receive an "F" for the course and be referred to the Chemistry Department Chair or Dean of Students for disciplinary action.

The price of success is high. You have to work hard, be persistent, and pay attention to details. These traits are ultimately why a college degree is valuable, plus the capacity to learn. Believe you can succeed. Be willing to pay the price. Accept responsibility for your learning!

Chemistry is a highly structured subject in which each new topic is based on others previously discussed. Therefore, if one topic is not mastered, it becomes increasingly difficult to master those that follow. Missing even one class can lead to problems that the average student cannot overcome. Also, chemistry does not lend itself to "cramming"

The lecture visual aids for the instructor and are not intended to be “the only source of study” for the students. You need to study from the E-textbook for all exams.

Three habits will help in mastering each topic as it arises, as well as reinforcing the mastery of the topics previously covered:

- 1) Read the assigned material before it is covered in lecture,
- 2) Work through the example and practice problems within each assigned chapter
- 3) Work a large number and wide variety of problems “as many end-of-chapter problems as possible”. All in-chapter examples and practice exercises should be done. To reward your hard work I might use some of the problems from your book for exams and quizzes.

Chemistry Department Policy on Student Conduct and Integrity: The *Georgia State University Policy on Academic Honesty* is in force in this course. This includes but is not necessarily limited to infractions in the area of *plagiarism, cheating on examinations, unauthorized collaborations, falsification, and multiple submissions*. This policy is published in *On Campus: the Student Handbook*, which is available to all members of the university community.

All examinations must represent your individual effort, with no unauthorized aid. To either *give* or *receive* unauthorized information during an examination is cheating, as is the use of *any* unauthorized supplementary material. In addition all laboratory work performed in conjunction with this course must represent your individual effort. Only original data obtained by your own *in-laboratory* experimentation are permitted to be used, except when *expressly authorized* by your laboratory instructor. Data from supplementary sources, handbooks, reference literature, etc. must be *clearly referenced* (title, author, volume, pages(s), etc.). Falsification or destruction of data constitutes cheating as well. Conduct disruptive of class, examinations, or laboratories *or* falsification or destruction of information related to chemistry courses will be taken as a violation of the policies of the Board of Regents of the University System of Georgia and the Georgia State University Student Code of Conduct, Section 6.0. Any suspected offenses may be referred to the Chairman of the Department or the Dean of Students for appropriate disciplinary action.

The foregoing provides a general plan for the course, deviations from which may be necessary. The instructor will announce any such changes online.