



CHEM 1151 – Survey of Chemistry I

Course Syllabus – Fall 2017

Individuals with disabilities who need to request accommodations should contact the Disability Services Coordinator, Edgewater Hall 255, (678) 466-5445, disabilityservices@mail.clayton.edu.

Course Description:

Number and Title: CHEM 1151 (CRN 80110), Survey of Chemistry I

Credit Hours: 3.0 semester credit hours (3-0-3)

Catalog Description: First course in a two-semester sequence covering elementary principles of general, organic, and biochemistry designed for allied health science majors (this course is also open to non-science majors). Topics to be covered include elements and compounds, chemical equations, nomenclature, and molecular geometry.

Course Prerequisites and Co-requisites:

- Pre-requisites: MATH 0099, or MATH 1101, or MATH 1111 with a minimum grade of D (or MATH 1113, MATH 1112, or MATH 1501 can be taken concurrently).

Instructor Information:

Instructor: Dr. Aubrey Dyer

phone: (678) 466-4894

e-mail: aubreydyer@clayton.edu

*During the semester, email will be my primary means of contact. Please use the above university email address. **Do not message or email via D2L.**

Email messages will typically be responded to within 24 hours.

Only use your CSU e-mail account to communicate academic information to your instructor

Office: Lakeview Science Center, Room 235C

Office hours:

Mondays at 9am-10:30am

Tuesdays 9am-10am

Wednesdays at 9am – 10:30am

Other times by appointment

Class Meetings:

This course is 100% online. There will be no on-campus meeting times, but due dates for specific assignments. Consult the course schedule for the deadlines.

Time Commitment:

- 16 weeks

- Approximately 5-6 hours per week (more if additional studying required)

Survey of Chemistry is a rigorous and demanding science course with firm due dates and understanding of the material required for success. Sufficient time spent on course activities and preparation for assessment is required.

Textbook Information:

Text: General Organic and Biochemistry, 9th Edition, by Denniston, Topping, Quirk Dorr, and Caret, McGraw-Hill, 2017.

Text Coverage: Chapters 1 – 6, 8 and 9

Connect Access Code: <http://mheducation.com/highered/platforms/connect/access.html>

Computer Requirement:

Each CSU student is required to have ready access throughout the semester to a notebook computer that meets faculty-approved hardware and software requirements for the student's academic program. Students will sign a statement attesting to such access. For further information on CSU's Official Notebook Computer Policy, please go to <http://www.clayton.edu/hub/itpchoice/notebookcomputerpolicy>.

Computer Skill Prerequisites:*

- Able to use your computer's (Windows or MacOS) operating system
- Able to access and send messages using your school e-mail

Only use your CSU e-mail account or the e-mail system included in D2L to communicate academic information to your instructor

- Able to use a Web browser and search engine
- Able to download files from a web site to your computer
- Able to use a word processor system (Microsoft Word™)
- Able to upload and download a document using Desire2Learn
- Able to access and send messages in Desire2Learn
- Able to post discussion topics and respond to other's discussion topics in Desire2Learn
- Able to access class learning materials in the modules in Desire2Learn

If you are unable to perform these computer tasks, do not have regular access to a computer or reliable internet, it is **HIGHLY recommended that you do not take this online class. CHEM 1151 is also taught as a traditional face-to-face class and this format will be better suited for you.*

Course Webpages:

D2L: Course content and deadlines will be posted on the course webpage in Desire2Learn (D2L). You can gain access to Desire2Learn, by signing on to the SWAN portal and selecting: "D2L" on the top right side. If you experience any difficulties in Desire2Learn, please email or call The HUB at TheHub@mail.clayton.edu or (678) 466-HELP. You will need to provide the date and time of the problem, your SWAN username, the name of the course that you are attempting to access, and your instructor's name.

Connect: Homework problems can be accessed via the following address:

<http://www.mheducation.com/highered/platforms/connect/access.html>

Instructions for purchasing an access code and registering for Connect can be found at the course D2L site. If you have any difficulties in Connect, please contact McGraw-Hill tech support. The instructor does not have access to your individual account to fix technical issues.

Program Learning Outcomes:

General education outcomes: The Clayton State University Core Curriculum outcomes (see Area D) are located in the Graduation Requirements section of the [Academic Catalog and Student Handbook](#).

Course Learning Outcomes:

- Effectively demonstrate the use of dimensional analysis to solve problems.
- Exhibit an understanding of the basic atomic structure of matter.
- Exhibit an understanding of the basic chemical reactions: types and calculations inherent within the chemical reaction (stoichiometry).

Evaluation:

Exams: Four online exams will be given during the semester and are to be completed by the dates and times listed above. The exams will be timed and no late submissions will be accepted. Material on exams will be taken from assigned reading, homework, lecture materials, and practice problems assigned in D2L and Connect. You are required to have a functioning computer and internet access during the exam. See the note below regarding timed online assessments.

Final Exam: A 2-hour final exam will be given and will be comprehensive. The final exam is to be completed by 11:59pm on Friday, December 8th. See the note below regarding timed online assessments.

Homework: There will be module homework assignments assigned in Connect. The due dates will be listed in D2L and Connect. Late homework will incur a late penalty.

Quizzes: There will be check-point quizzes associated with each submodule for no credit. A score of 2 correct answers out of 3 questions is required before moving on to the next submodule. Each chapter will have a quiz for credit and are to be completed with at least one attempt to be allowed to move on to the subsequent module. These will be assigned in D2L. See the note below regarding timed online assessments.

**Timed Online Assessments: The online quizzes and exams must be taken by the deadline. Late assessments are not accepted. Anyone that does not complete a quiz or exam by the deadline will receive a "0". STUDY for the quizzes and exams! It is timed and designed to be taken without your notes. You will be able to complete it within the time allotted only if you have studied. If you attempt to look through your notes you may run out of time. After the quiz deadline has expired, you may access the answers and your score. Select view results to view your score and read the feedback concerning the correct answers.*

Course Grade (out of 800 possible points):

Exam 1	100 points
Exam 2	100 points
Exam 3	100 points
Exam 4	100 points
Comprehensive Final Exam	150 points
Homework (in Connect)	150 points
Quizzes/Discussion Posts (in D2L)	100 points

Grading Scale

A	90% — 100%
B	80% — 89%
C	70% — 79%
D	60% — 69%
F	Less than 59%

Mid-term Progress Report:

The mid-term grade in this course, which will be issued on October 3, 2017, reflects approximately 40% of the entire course grade. Based on this grade, students may choose to withdraw from the course and receive a grade of "W." Students pursuing this option must fill out an official withdrawal form, available in the Office of the Registrar, or withdraw on-line using the Swan by mid-term, which occurs on October 6th. [Instructions for withdrawing are provided at this link](#). **The last day to withdraw without academic accountability is Friday, October 6, 2017**

Course Schedule:

The course schedule for CHEM 1151, Survey of Chemistry I, is provided in the table below. Links for suggested reading, learning objectives, practice problems, and supplementary material will be posted in D2L. The instructor reserves the right to modify the course schedule. If such a need arises, it will be communicated to the class. Please see the suggested course schedule and check-list in D2L for suggestions on completion of tasks timing.

Module	Lesson Topic	Completion Deadline
	Course Introduction: Syllabus Quiz, Introduce Yourself Forum, Participant Responsibilities Exercise	Aug 24
1	Chapter 1: Scientific Method, Matter, Measurements, Unit Conversions, Temperature, Density	Aug 24
	Chapter 1 Quiz	Aug 24
2	Chapter 2: The Atom, The Periodic Table Electron Arrangement, Valence Electrons, Periodic Trends	Sept 5
	Chapter 2 Quiz	Sept 5
1 & 2	Exam 1	Sept 7
3	Chapter 3: Chemical Bonding, Naming and Writing Formulas of Compounds, Properties of Compounds, Drawing Structures, Molecular Geometry, Intermolecular Forces	Sept 18
	Chapter 3 Quiz	Sept 18
4	Chapter 4: Moles, Chemical Formula, Molar Mass, Chemical Equation, Types of Reactions, Calculations with Chemical Equations, Reaction Yield	Sept 28
	Chapter 4 Quiz	Sept 28
3&4	Exam 2	Oct 2
	Last day to withdraw without academic accountability	Oct 6
5	Chapter 5: Gases, Liquids, and Solids	Oct 20
	Chapter 5 Quiz	Oct 20
6	Chapter 6: Solutions, Concentrations, Concentration-Dependent Properties, Aqueous Solutions	Nov 3
	Chapter 6 Quiz	Nov 3
5 & 6	Exam 3	Nov 7
7	Chapter 8: Acids and Bases, pH, Acid/Base Reactions, Buffers	Nov 17

	Chapter 8 Quiz	Nov 17
8	Chapter 9: Nuclear Chemistry	Nov 30
	Chapter 9 Quiz	Nov 30
7&8	Exam 4	Dec 4
1-8	Final Exam	Dec 8

Course Policies:

General Policy: Students must abide by policies in the Clayton State University Student Handbook, and the [Basic Undergraduate Student Responsibilities](#). The Student Handbook is part of the [Academic Catalog and Student Handbook](#).

University Attendance Policy: Students are expected to attend and participate in every class meeting. Instructors establish specific policies relating to absences in their courses and communicate these policies to the students through the course syllabi. Individual instructors, based upon the nature of the course, determine what effect excused and unexcused absences have in determining grades and upon students' ability to remain enrolled in their courses. The university reserves the right to determine that excessive absences, whether justified or not, are sufficient cause for institutional withdrawals or failing grades.

Course Attendance Policy: As an online class, attendance is not required. However, students are expected to log into Desire2Learn each week and complete the assignments outlined in the module for the respective week.

Missed/Late Work

Exams and Quizzes: There will be four online exams and seven online chapter quizzes. **Make-up exams or quizzes will not be given.** A missed examination, either excused or unexcused, will result in an increase in the percentage of the final exam. Only one exam can be missed during the semester. A missed final exam will result in a zero for the final exam unless prior arrangements have been made with the instructor. See the schedule above for the completion due dates for the chapter quizzes and exams.

Homework: Homework will be assigned via Connect. It is your responsibility to complete the homework assignments on time. The instructor will not grant individual extensions for technical difficulties or other matters that may arise.

Academic Dishonesty: I take academic integrity very seriously. Any type of activity that is considered dishonest by reasonable standards may constitute academic misconduct. The most common forms of academic misconduct are cheating and plagiarism. All instances of academic dishonesty will result in a grade of zero for the work involved, at a minimum, and can result in expulsion from the institution. All instances of academic dishonesty will be reported to the [Office of Community Standards](#). Judicial procedures are described in the section of the [Academic Catalog and Student Handbook](#) titled, Procedures for Adjudicating Alleged Academic Conduct Infractions.

Specific forms of cheating on exams include, but are not limited to, copying, using supplementary material not allowed, submitting another's work as your own (including 'Googling' answers to homework, quizzes, or exams).

Disruption of the Learning Environment: Behavior which disrupts the teaching–learning process during class activities will not be tolerated. While a variety of behaviors can be disruptive in a classroom setting and may include talking, use of cell phones and/or computers during class, more serious examples include belligerent, abusive, profane, and/or threatening behavior. A student who fails to respond to reasonable faculty direction regarding classroom behavior and/or behavior while participating in classroom activities may be dismissed from class. A student who is dismissed is entitled to due process and will be afforded such rights as soon as possible following dismissal. If found in violation, a student may be administratively withdrawn and may receive a grade of WF.

More detailed descriptions of examples of disruptive behavior are provided in the Code of Conduct and Disciplinary Procedures sections of the Clayton State University [Academic Catalog and Student Handbook](#).

Common examples of disruptive behavior in an online class are as follows, but are not limited to:

- a. Monopolizing classroom discussions
- b. Failing to respect the rights of others students to express their viewpoints
- c. Inappropriate language
- d. Refusal to comply with faculty direction in Online Etiquette (Netiquette).
Discussion boards, chat, and e-mail spaces within this course are for class purposes only, unless otherwise stated. Please remember to conduct yourself collegially and professionally. Unlike the classroom setting, what you say in the online environment is documented and not easily erased or forgotten. The following guidelines apply:
 - i. Avoid using ALL CAPS, sarcasm, and language that could come across as strong or offensive.
 - ii. Use proper punctuation, grammar, and be sure to edit your contribution before posting.
 - iii. Read all postings before posting your responses to discussion topics so as to not unnecessarily repeat information.
 - iv. Keep chat comments brief and to the point.
 - v. Focus on one topic at a time when chatting or posting to discussions.
 - vi. Remember that unlike in face-to-face learning environments what you say in discussions and chats is documented and available to be revisited. Choose your words and discussion topics carefully.
 - vii. E-mail should only be used for messages pertaining to the course. Please refrain from sending forwards, jokes, etc. within e-mail.

Weapons on Campus: Clayton State University is committed to providing a safe environment for our students, faculty, staff, and visitors. Information on laws and policies regulating weapons on campus are available at <http://www.clayton.edu/public-safety/Safety-Security/Weapons>

Student Survey Requirement: Students have the responsibility to complete the Student Survey and Course/Instructor Evaluation for each course and each instructor every semester. If this is not done during the allotted time period, the student will be restricted from seeing their final course grade for a period of approximately one week after final exams have ended. Instructors are not allowed to give course grades to those who did not complete these evaluations. Also, no grades of any kind will be given out over the telephone or email due to federal privacy laws.