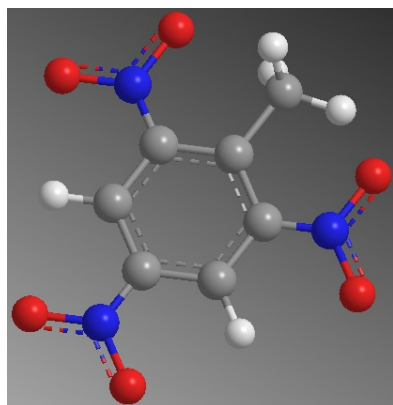


Course Syllabus

[Jump to Today](#) 




Welcome to CHM2210C Organic Chemistry 1!

Organic chemistry is the study of carbon, the basis of all living things on Earth. In this class, you will have the opportunity to explore how chemical structures create the physical and chemical properties that we observe every day in medicine, fuel, materials, food, and more. It is a deep and exciting field that I really enjoy and I hope that you will too!






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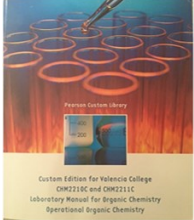
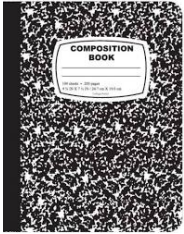
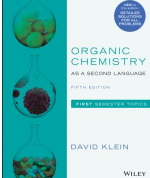

Class Meeting Times

Lab Meeting 	Mondays 11:30am - 2:15pm	Lake Nona Campus room 350
Class Meeting 	Wednesdays 11:30am - 12:45pm	Lake Nona Campus room 305
Online work 	whenever you'd like (before class)	Canvas

Instructor Contact Information

	<p>Dr. Laura Sessions</p> <p>About Me (https://online.valenciacollege.edu/courses/198160/pages/about-dr-sessions)</p> <p>Best contact: Canvas Inbox. I will respond within one business day and often sooner!</p> <p>Other contacts: lsessions@valenciacollege.edu (mailto:lsessions@valenciacollege.edu)/407-582-7138</p> <p>Learn more about my expectations for the class in the Start Here/Course Expectations (https://online.valenciacollege.edu/courses/198160/pages/start-here-slash-course-expectations?wrap=1) page.</p>
 or 	<p>Office Hours</p> <p>in office (Lake Nona Campus room 319) Mondays 2:30-3:00pm, Tuesdays 9:15 - 9:45 am/2:30-3:00pm, Wednesdays 9:15 - 9:45am/1:00 - 1:30pm, Thursdays 9:15 - 9:45am</p> <p>via Zoom (https://online.valenciacollege.edu/courses/198160/pages/office-hours-zoom-virtual-link-and-tutoring), Mondays and Wednesdays 3:30 - 4:30pm</p> <p>via Canvas Inbox/email F 9:00 am - 2:00 pm or other times by appointment</p>

Required Supplies

	<p>Textbook</p> <p>We will use a variety of free resources for the class, so good internet connectivity and navigation skills are required. These are the core textbook resources:</p> <ul style="list-style-type: none">• <i>Organic Chemistry with a Biological Emphasis Volume I</i> by Timothy Soderburg<ul style="list-style-type: none">◦ downloadable as PDF textbook◦ downloadable Solutions to In-Chapter Exercises / Solutions to End-of-Chapter Problems• <i>Organic Chemistry: A Tenth Edition</i> by John McMurry• <i>Virtual Textbook of Organic Chemistry</i> by William Reusch <p>These are professional tools that we will learn to use in the class as well:</p> <ul style="list-style-type: none">• PubChem• Chemicalize
	<p>Lab Manual</p> <p><i>Operational Organic Chemistry</i> Valencia Custom Edition by John Lehman, Pearson Prentice Hall, 2009.</p> <ul style="list-style-type: none">• ISBN: 1269103490• ISBN 9780136000921 to search for the full 4th edition for rental/used.• Available on course reserves in the library or in the tutoring center (room 230).
	<p>Lab Notebook</p> <p>You may choose your preferred format: paper or electronic.</p> <ul style="list-style-type: none">• For paper, the pages are bound together - cannot be spiral or tearable pages.<ul style="list-style-type: none">◦ You will take pictures and upload them to Canvas for grading.• For electronic, you must be able to record your data and drawings in real time as you work in the lab in the OneNote template.<ul style="list-style-type: none">◦ You will need a tablet, laptop, or your phone in the lab.◦ This means that you are risking chemical exposure or other damage to your device - this is at your own risk.◦ For One Note, you have free MS Office - see link under Technology below.
	<p>Optional:</p> <ul style="list-style-type: none">• <i>Organic Chemistry as a Second Language</i> by Klein - ISBN: 1119110661 <p>A great resource for learning problem-solving steps. Any edition will do.</p>
	<p>Technology</p> <ul style="list-style-type: none">• computer with reliable internet• ability to take and upload pictures of hand-written work• word processing software and PowerPoint/Google slides or compatible• professional chemistry software <p>Free MS Office: https://valenciacollege.edu/faculty/canvas-resources/plugins-and-software.php</p>

Course Description

CHM2210C deals with aliphatic and aromatic compounds, their properties, reactions and synthesis, emphasizing dependence of properties and reaction mechanisms upon structure. Laboratory illustrates techniques of separation, identification and purification. Prereq: CHM 1046C or comparable college-level general chemistry course.

See also [Course Learning Outcomes](https://online.valenciacollege.edu/courses/198160/pages/course-learning-outcomes)

Core Competencies

Success in the class originates from **actively** thinking and **working** through many different exercises. Communicating scientific ideas effectively with others is a key component of learning and a workforce skill. Sitting passively watching videos or listening to someone else explain or even simply reading without analyzing the content will not help as much as one might think. Take a look at the [How to Study Organic Chemistry](https://online.valenciacollege.edu/courses/198160/pages/how-to-study-organic-chemistry) page for specific ideas!

- 01 THINK – You will analyze data and ideas, employ formulas and procedures, and draw and revise supported conclusions.
- 02 VALUE – You will recognize relevant information and manage work time.
- 03 COMMUNICATE – You will exchange ideas and information with others.
- 04 ACT – You will responsibly set goals and reflectively solve problems, individually and in groups.



This is a **mixed mode class** - the face-to-face meeting time is only 1.25 hours so that there will be about 2 hours online - preparation before class and a little homework after class. In class, we will do mini-lectures, problem solving, and examine interesting applications together. I have carefully designed the class to be as focused and efficient as possible. The most effective use of your time will be to do the preparation online before class - it is designed to expose your brain to the concepts, so that you will better understand and remember the work that we do together. Labs are 2.75 hours each week. You must prepare before lab in order to be able to complete the lab skills successfully.

This is also a **mastery class** - you have multiple attempts to demonstrate your mastery of organic chemistry on assignments and multiple ways to earn your desired grade. You must keep track of your grades in the [Grades \(https://online.valenciacollege.edu/courses/198160/grades?wrap=1\)](https://online.valenciacollege.edu/courses/198160/grades?wrap=1).

Technology and Skills

You will be required to:

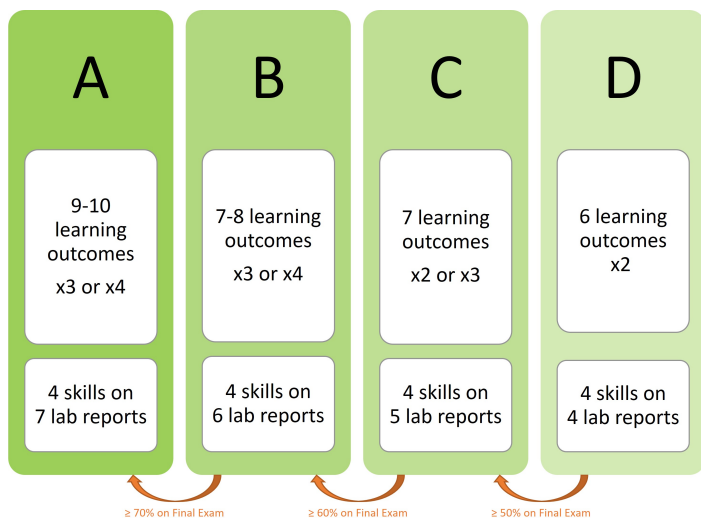
- Have good internet connectivity
- Access textbook websites
- Download and read PowerPoint/Google slides and PDF files
- Draw pictures and upload them in Canvas assignments and discussions
- Use professional chemistry software and databases
- Create and upload Office or PDF files through Canvas
- Access the Canvas grading rubric

Grading

The course will cover 10 core Course Learning Outcomes and 4 core lab skills. Your understanding of the learning outcomes can be demonstrated on 1) the online work (preparation lessons and activities); 2) nearly weekly quizzes; 3) two mid-term exams; and 4) the final exam. These give you 4-5 chances total per outcome. Depending how many times you pass each outcome, your grade will be earned according to the rubric below. The Final Exam will be the American Chemical Society Organic Chemistry Exam. If you have earned your desired grade, it is not necessary to take the final exam. On the other hand, achieving a 50% or more on the Final Exam will round up to a C; 60% or more round up to a B; or 70% or more round up to a A. Note that to round up, the minimum criteria for lab grades must be met.

Your skills at lab can be demonstrated with informal lab reports - these may be re-written one time as long as they are submitted on time. You can also demonstrate lab skills one time on a lab safety team. Again, based upon how many of these you pass, your grade will be earned according to the rubric below.

Grades will be earned based upon the following rubric:



There are no points to worry about in the class. Quizzes, tests, and exams will be graded as Pass or No Pass. A pass is 85-90% correct understanding depending on the number of questions. Labs will be graded as Pass, Needs Revision, or No Pass. You have **one week following the return of graded items** to do a re-write (for online work and labs).

Assignments will be graded each week with detailed feedback given in the Canvas grading rubrics. Keep track of your grades in the [Grades \(https://online.valenciacollege.edu/courses/198160/grades\)](https://online.valenciacollege.edu/courses/198160/grades) tool in the left menu. Look for the tally in the Learning Mastery gradebook to count your grade (viewable on a desktop/laptop). *Note: the % grade given by Canvas is not accurate - only the Learning Mastery!* You can also use this: [Grades checklist.xlsx \(https://online.valenciacollege.edu/courses/198160/files/47415928?wrap=1\)](https://online.valenciacollege.edu/courses/198160/files/47415928?wrap=1). [↓ \(https://online.valenciacollege.edu/courses/198160/files/47415928/download?download_frd=1\)](https://online.valenciacollege.edu/courses/198160/files/47415928/download?download_frd=1).

Descriptions of each assignment type are on the [Course Assignments \(https://online.valenciacollege.edu/courses/198160/pages/course-assignments\)](https://online.valenciacollege.edu/courses/198160/pages/course-assignments) page. Grades in this course are correlated to learning and demonstration of your ability to use the material based on the following criteria:

- D: Modest ability to describe structures and reactions that have been illustrated in detail in class and course materials. Independent learning will be the next step to improve as a student.
- C: Proficient in describing structures and reactions that have been illustrated before in course materials or in class in detail. Some independence in learning chemistry is shown.
- B: In addition to the criteria of C, ability to apply theory and laws to new structures or integrate concepts with some proficiency. Independence in learning is evident along with proficiency in student competencies.
- A: Significant ability to learn and use chemistry. Proficient in applying theories and laws to new structures and reactions. Core competencies (think, value, communicate, act) are demonstrated.

Our ultimate goal is to become independent learners who can succeed at future standardized tests, professional school curriculum, and workforces skills. As your instructor, I am here to help you succeed in your goals!

Attendance

In order to complete the weekly quizzes and labs and have the opportunity to learn the material, attendance is necessary. Note that the grades allow for missing a few of each assignment, so excuses are not necessary. Plan to spend time a couple days per week in the Canvas course online to prepare for class and to submit online assignments by the due date. This is a challenging class and will take some work and time, but we will work together to succeed!

Special note: in order to participate in labs, the pre-lab notebook and quiz must be completed prior to arrival and proper lab attire must be worn. Missing a lab will result in a 0 for that lab report. See the [Course Assignments \(https://online.valenciacollege.edu/courses/198160/pages/course-assignments\)](https://online.valenciacollege.edu/courses/198160/pages/course-assignments) for details.

No Show

To comply with regulations from the Department of Education dealing with program integrity, faculty must document attendance. If you do not attend the first class meeting, you may be withdrawn from the class as a "no show".

If you are withdrawn as a "no show," you will be financially responsible for the class and a final grade of "WN" will appear on your transcript for the course. Please communicate with me immediately if you will miss the first day.

Make-up Policy

To simplify the process when illness or emergency occurs, the [Grading](#) policy provides for dropped scores in each grade category. No need to explain anything in the case of one or two missed grades. If you are unable to participate in the course due to illness, family emergency, etc. and it affects your desired grade, please communicate with me as soon as possible in order to create a plan to complete any missed assignments so that your learning can progress in your course.

Note that in order to receive a second attempt on labs or assignments, **the first attempt must be submitted on time**. The second attempt must be submitted within one week of grading. Discussions may not be completed late since they require interactions with peers.


Exams may be completed late in the case of extreme illness or documented official representation of the college at an event, religious observances, jury duty, or active military service. Communicate with me **prior to** any missed exam to schedule a make-up. Quizzes may be made up in office hours within a week of the scheduled time.


The final exam is must be taken on or before the date published for final exams.

Withdrawal Policy



Note the withdrawal deadline for the term in [Important Dates](#). Per Valencia Policy 4-07 (Academic Progress, Course Attendance and Grades, and Withdrawals), a student who withdraws from class before the withdrawal deadline will receive a grade of "W." A student is not permitted to withdraw after the withdrawal deadline - the course grade will be the grade earned. Any student who withdraws or is withdrawn from a class during a third or subsequent attempt in the same course will be assigned a grade of "F." For a complete policy and procedure overview on Valencia Policy 4-07, please see the [Valencia Catalog \(https://valenciacollege.edu/students/catalog/\)](https://valenciacollege.edu/students/catalog/).

Expected Student Conduct

<p>Academic Dishonesty: <i>Don't do it!</i></p>	<p>You have joined this class to learn. To promote learning, all forms of academic dishonesty are prohibited at Valencia College. Academic dishonesty includes, but is not limited to: plagiarism, cheating, furnishing false information, forgery, alteration or misuse of documents, misconduct during a test situation, and misuse of identification with intent to defraud or deceive. It is assumed that all work that you turn in is your own. It is cheating to show someone your test, homework, or lab work so that they may copy the work instead of doing it themselves. It is cheating to copy directly from any reference.</p> <p>While use of artificial intelligence (AI) tools to improve your work is a good idea, using AI to do your work for you is not acceptable. For example, it would be smart to have an AI check your spelling and grammar for a discussion post or to help you find an interesting molecule to research. It would not be acceptable to have an AI write your entire post or predict a product for you. 1) AI still makes a lot of errors at this point in time! 2) Overuse of AI will not help you to learn chemistry.</p>
 <p>Classroom Behavior and Netiquette</p>	<p>Valencia College is dedicated not only to the advancement of knowledge and learning but is concerned with the development of responsible personal and social conduct. By enrolling at Valencia College, a student assumes the responsibility for becoming familiar with and abiding by the general rules of conduct.</p> <p>Whether online or face-to-face, discussions and email require courtesy and respect for classmates and the instructor. See the Class Behavior Guidelines (https://online.valenciacollege.edu/courses/198160/pages/class-behavior-guidelines?wrap=1) for more information.</p>

	Safety lab behavior must be maintained at all times during the laboratory classes: see the lab rules .
 Consequences	<p>Netiquette violations or cheating will result in a grade of zero for all parties involved. Any evidence of cheating on any assignment or quiz will result in 0 for the first offense and an "F" for the entire course after that warning.</p> <p>Students who engage in any prohibited or unlawful acts that result in disruption of a class may be referred to the Dean of Students. Violation of Valencia's rules may lead to disciplinary action up to and including expulsion from Valencia. Disciplinary action could include being withdrawn from class, disciplinary warning, probation, suspension, expulsion, or other appropriate and authorized actions. Each student is expected to be informed and compliant with the Valencia College Student Handbook.</p>

Technical Support

	<p>Click on the question mark in the left menu for 24/7 help with Canvas and technical support.</p> <p>Free Canvas training class: https://valenciacollege.edu/students/learning-support/online/index.php</p> <p>SoftChalk User Guide (for the pre-lab quizzes): https://softchalk.atlassian.net/wiki/spaces/SD/pages/200114368/Student+Guide+to+SoftChalk+Lessons</p>
	<p>Assistance over the phone or via live chat to troubleshoot technical problems</p> <ul style="list-style-type: none"> Help page with technical support: https://catalog.valenciacollege.edu/distancelearning/ Atlas Help Desk: 407-299-5444 8 am - 6 pm Mon -Thurs and 9 am - 5 pm Friday Online Help Desk: 407-299-5600 24 hours a day 7 days a week

College Policies

Disability Support Services: Students with disabilities who qualify for academic accommodations must provide a notification from the [Office for Students with Disabilities \(OSD\)](https://valenciacollege.edu/students/office-for-students-with-disabilities/) and discuss specific needs with the instructor, preferably during the first two weeks of class. The Office for Students with Disabilities determines accommodations based on appropriate documentation of disabilities.

Safety and Pregnancy: If you are concerned about any medical conditions (including pregnancy) that may compromise your safety in the lab, I can provide a list of chemicals used in course experiments to show to your physician. If you have questions regarding possible alternative arrangements due to pregnancy, please speak with me or you may contact Mr. Ryan Kane, Title IX Coordinator, 407-582-3421, rkane8@valenciacollege.edu for more information.

Student Help: Valencia College is interested in making sure all our students have a rewarding and successful college experience. Valencia students can get immediate help with issues dealing with stress, anxiety, depression, adjustment difficulties, substance abuse, time management as well as relationship problems dealing with school, home or work. Students have 24 hour unlimited access to the Baycare Behavioral Health's confidential student assistance program phone counseling services by calling (800) 878-5470. Three free confidential face-to-face counseling sessions are also available to students.

Students also have access to Valencia's **free real-time tutoring** on in-person or on Zoom: <https://valenciacollege.edu/students/learning-support/>. Online tutoring is offered through Brainfuse and can be accessed through Atlas. Assistance with library research can be accessed in-person or online through Atlas. Students also have access to resources such as calculators, laptops, iPads, group study rooms and quiet study rooms within the Library and Learning Support areas.

Counselors: Valencia College counselors assist students who may be facing barriers that impede their academic success. Valencia counselors can provide strategies and support if you're experiencing symptoms of stress/anxiety/depression, lack of motivation, feeling overwhelmed, relationship concerns, physical/mental health challenges, loss of loved one/grief, food insecurity, homelessness, among other concerns; and can provide resources for community mental health and social services. Valencia counselors cannot provide therapy and will refer students to BayCare Student Assistance Program appropriately. Valencia Counselors can assist students virtually or on-campus during standard business hours. Connect with a counselor and review many helpful resources at <https://valenciacollege.edu/starttalking>.

Grade Grievance: Students have recourse through the [Student Academic Dispute Resolution](http://valenciacollege.edu/students/Disputes/) process to seek a fair determination for the assignment of a final course grade. However, final grades of "W" and "I" based upon the failure of the student to take the final examination, excessive absences, or other administrative reasons may not be grieved to the Student Final Grade Dispute Resolution Committee. For non-final grades and matters, each Campus President shall be responsible for designating a person or persons to assist students who wish a review of decisions that are related to access to courses and credit granted toward the degree (excluding final grades).

FERPA Statement: FERPA is a Federal law that is administered by the Family Policy Compliance Office (Office) in the U.S. Department of Education (Department). 20 U.S.C. § 1232g; 34 CFR Part 99 and affords students certain rights with respect to their educational records. Valencia College has a firm commitment to protecting the privacy rights of its students. For further information on FERPA see: <https://valenciacollege.edu/about/ferpa/>.

All software required for the course subscribes to FERPA protection of student information when applicable. You can see the privacy policies for each software below:

- Canvas: <https://www.instructure.com/policies/privacy>
- OpenStax: <https://openstax.org/privacy>

- YouTube: <https://policies.google.com/privacy?hl=en>
- SoftChalk: <https://www.softchalkcloud.com/privacy>
- Chemicalize: <https://docs.chemaxon.com/display/docs/privacy-policy.md>
- PubChem: https://www.nlm.nih.gov/web_policies.html

Valencia I.D. Cards: Your student ID card can be obtained in the Security office on any Campus (room 150 on Lake Nona) once you have registered and paid for your classes. You will need your student ID card to access campus services such as the Library and Testing Center. The first student ID card is free. There is a \$5 fee for a replacement card. Student IDs can be used for library access, testing purposes, and discounts in the community.

Computer/Equipment Classroom Use Policies: Use of computers in the Business, IT, and Public Service classrooms at Valencia College is restricted to those activities designated by the instructor to enhance the class materials. Any other use is strictly forbidden. Inappropriate use includes, but is not limited to:

- Use of computer to send E-mail or access Internet sites not specifically assigned in class.
- Use of computer for job, internship, homework or other activities not assigned in class.
- Modifying any hardware or software system configuration or setting.
- Activities not in accordance with the Valencia Student Code of Conduct.

Use of computers in the departmental open lab is limited to those activities involved with preparing homework or coursework in this department and is subject to the same restriction as listed above. Computer use is remotely monitored; any student using computers inappropriately may be subject to dismissal from class or banishment from the lab. Subsequent offense may be sent to the campus administration for further disciplinary action.

Campus Security: From our chief of security: We want to reassure you that our security officers are here around the clock to ensure the safety and security of the campus community. It's important to remain alert and aware of your surroundings, especially during the early morning or evening hours. Remember that you can always call security for an escort if you feel uncomfortable walking alone on campus. Finally, report any suspicious persons to Lake Nona Campus Security at 407-582-7000 or by using the yellow emergency call boxes located on light poles in the parking lots and along walkways. More information can be found here: <https://valenciacollege.edu/students/security/>.

Title IX Statement: Valencia College strives to be a place free from all forms of discrimination. Title IX protects students from discrimination based upon sex including protections against sexual violence, domestic violence, and stalking. This also includes protections for students who are pregnant or may become pregnant. If you experience sexual violence, domestic violence or stalking and would like assistance there are several options available to you. Valencia partners with the Victim Service Center of Central Florida which is a confidential resource available 24/7. They can be reached at 407-497-6701 or at <https://www.victimservicecenter.org/>. If you would like assistance on campus, you can go to <https://valenciacollege.edu/about/equal-opportunity-title-ix/> or contact Valencia College's Title IX and Equal Opportunity Officer, Ryan Kane, by emailing rkane8@valenciacollege.edu. If you would like to report to law enforcement, you may call or visit Campus Security or call 911.

Please note that there are no confidential resources on campus. As your professor, I am required to report any information mentioned in this statement to the appropriate campus resources. This will include your name and detailed information shared with me. We take privacy very seriously at the College and only those who have a legitimate need to know the information will be provided with this information. If you have more questions about Title IX or the College's response, please visit <https://valenciacollege.edu/about/equal-opportunity-title-ix/>.

Intellectual Freedom and Viewpoint Diversity: Students may record video or audio of class lectures for their own personal educational use. A class lecture is defined as a planned presentation by a college faculty member or instructor, during a scheduled class, delivered for the purpose of transmitting knowledge or information that is reasonably related to the pedagogical objective of the course in which the student is enrolled. Recording class activities other than class lectures, including but not limited to class discussions, student presentations, labs, academic exercises involving student participation, and private conversations, is prohibited. Recordings may not include the image or voice of other students in the class, may not be used as a substitute for class participation and class attendance, and may not be published or shared without the written consent of the faculty member. Failure to adhere to these requirements may constitute a violation of the College's Student Code of Conduct.

Important Dates

Drop/Refund Deadline (11:59 p.m.)	Jan 16
Withdrawal Deadline - "W" Grade (11:59 p.m.)	March 15
Holidays - no class	Jan 15, March 18-24
Mid-term Exams:	March 11 and April 17
Final Exam:	Monday April 22 11:30am - 1:30pm in room 350

As many factors may affect the development and progress of a class, please note that the syllabus is subject to change during the term by announcement by the professor on Canvas. Your continued participation in this course after the drop-add deadline period constitutes an agreement with and an acceptance of the conditions presented in this syllabus.

Tentative Schedule

Week	Week of	Experiment Monday	Class Topic Wednesday
1	Jan 8	Introductions/Lab safety Lewis/line Structures (LO 1)	MO Theory/geometry (LO 1)
2	Jan 15	<i>Martin Luther King, Jr Day - college closed</i>	Quiz: LO 1

			Acid-base theory (LO 2)
3	Jan 22	Acid-base theory (LO 2) Minilab #36: acid-base strength	Physical Properties (LO 3)
4	Jan 29	Expt. #15: TLC Analysis of Drug Components (LO 3)	Quiz: LO 2 Nomenclature (LO 4)
5	Feb 5	Expt. #8: Identification of a Petroleum Hydrocarbon (LO 3/4)	Quiz: LO 3 Nomenclature (LO 4)
6	Feb 12	Stereochemistry Molecular Models (LO5)	Quiz: LO 4 Stereochemistry (LO5)
7	Feb 19	Mini-lab # 12 Optical Rotation of Turpentine (LO 5)	Quiz: LO 5 Energy (LO 6)
8	Feb 26	Substitution Rxns (LO 7)	Quiz: LO 6 Elimination Rxns (LO 7)
9	March 4	Competition between Substitution and Elimination (LO 7)	Review Quiz: LO 7
10	March 11	Mid-term Exam 1 Minilab #20 Unsaturation in Commercial Products (LO 8)	Alkenes (LO 8)
11	March 18	Spring Break - college closed	Spring Break - college closed
12	March 25	Expt. #2: Separating the Components of "Panacetin" (LO 2/3)	Alkynes (LO 8)
13	April 1	Expt. #3: Identifying a Constituent of "Panacetin" (LO 2/3)	Quiz: LO 8 Synthesis (LO 9)
14	April 8	Expt. #3: Identifying a Constituent of "Panacetin" (LO 2/3)	Quiz: LO 9 IR and NMR Spectroscopy (LO 10)
15	April 15	<i>Lab Practical - Expt. #14: Properties of Common Functional Groups (LO 2/3/8/10)</i>	Mid-term Exam 2 Quiz: LO 10
16	April 22	FINAL EXAM Monday April 22 11:30am-1:30pm in room 350	-

Expt # refers to Lehman lab manual. LO: learning outcome; T: learning target. See [Course Learning Outcomes \(https://online.valenciacollege.edu/courses/198160/pages/course-learning-outcomes\)](https://online.valenciacollege.edu/courses/198160/pages/course-learning-outcomes).

Course Summary:

Date	Details	Due
Tue Jan 9, 2024	🔗 *LESSON 1 Define organic chemistry (https://online.valenciacollege.edu/courses/198160/assignments/5325907)	due by 11:59pm
	🔗 *LESSON 5 Molecular Orbitals (https://online.valenciacollege.edu/courses/198160/assignments/5325917)	due by 11:59pm
Fri Jan 12, 2024	🔗 *Find Five Functional Groups (https://online.valenciacollege.edu/courses/198160/assignments/5325924)	due by 11:59pm