

Basic Course Information				
Semester:	Fall 2025	Instructor Name:	Dr. James Fisher	
	Chemistry 204 Organic I			
Course Title & #:	Chemistry	Email:	Jim.fisher@imperial.edu	
CRN #:	10519	Webpage (optional):	Zoom: https://imperial- edu.zoom.us/j/2198947419	
Classroom:	2716	Office #:	2771	
Class Dates:	Aug 11-Dec 6 2025	Office Hours:	Office hrs: M-F 7:30-8AM, M & W 1-1:30, Tu-Th 4-4:30	
Class Days:	Monday & Wednesday	Office Phone #:	760-355-6524	
Class Times:	8:00 AM-12:50 PM	Emergency Contact:	Department Secretary 760-355-6155	
		Class		
Units:	5	Format/Modality:	Face to face	

Course Description

This course is a study of various reaction mechanisms and properties of hydrocarbons, alkyl halides, alcohols, thiols, and ethers. Stereochemical properties of compounds are investigated and related to structure and observed reactions. Instrumental methods of analysis such as IR, UV-VIS, NMR, and mass spectrometry are discussed. This course is intended for students majoring in chemistry, biology, and pre-medical sciences. (C-ID: CHEM 150; C-ID: CHEM 160 S with CHEM 206) (CSU, UC).

Course Prerequisite(s) and/or Corequisite(s)

CHEM 202 - General Inorganic Chemistry II (Historical)

Student Learning Outcomes

Upon course completion, the successful student will have acquired new skills, knowledge, and or attitudes as demonstrated by being able to:

1. Solve chemical problems using modern atomic theory (ISLO 2, ISLO 4)

2. Perform chemical experiments in a scientific manner, using proper techniques, analysis, and safety equipment. (ISLO 2, ISLO3, ISLO4)

Course Objectives

Upon satisfactory completion of the course, students will be able to:

- 1. Demonstrate knowledge covalent bonding and molecular geometry.
- 2. Describe structure and reactions of alkanes and cycloalkanes.
- 3. Demonstrate knowledge of organic acids and bases.
- 4. Demonstrate knowledge of stereochemistry and its effects of molecular properties.
- 5. Demonstrate knowledge of the structure and reactions of alkenes.
- 6. Demonstrate knowledge of alkyl halides and radical reactions.



- 7. Demonstrate knowledge of nucleophilic substitution and beta elimination.
- 8. Demonstrate knowledge of the structure and reactions of alcohols and thiols.
- 9. Demonstrate knowledge of the structure and reactions of alkynes.

10. Demonstrate knowledge of the structure and reactions of ethers, sulfides, and epoxides.

11. Identify organic molecules using various instrumental methods such as mass spectrometry and nuclear magnetic resonance spectrometry (NMR) as well as infrared (IR) and UV-Visible spectroscopy.

Textbooks & Other Resources or Links

- 1. Organic Chemistry [Global Edition], Leroy Wade, Jan Simek, ISBN-13: 9781292424255 or ISBN-10: 1292424257
- 2. Organic Chemistry (Wade), Complete and Semesters I and II Chemistry LibreTexts Leroy Wade
- 3. Lab Manual <u>Chemistry 204 Laboratory Manual</u>; purchase from the STEM/Chem club, \$20.00.
- 4. Lab notebook for recording experiments. <u>Amazon.com : AHGXG College Ruled Notebook 2 Pack B5 Large</u> <u>Composition Notebook Lined Journal 7.6 x 10 inch, with Thick 100gsm Lined Paper, Total 408 Numbered Pages,</u> <u>Inner Pocket - Green Brown : Office Products</u>
- 5. 2@spiral ringed notebooks, 1 for notes taken while reading your textbook and 1 for working problems/exercises at the end of the chapter. These will be your study guides for the final.
- 6. Safety Glasses or Goggles: must be acid and heat resistant. These must comply with:
 - a. Meet ANSI* Z87.1-2003 standards.
 - b. Polycarbonate lens
 - c. Wraparound protection offers a wide field of vision.
- 7. Nonprogrammable Calculator: a highly recommended calculator is the Texas Instruments TI36X Solar Scientific Calculator (not the "TI36X-Pro" or the TI-30Xa).
- 8. Scranton for your final exam an 882-E, for 100 answers.
- 9. If you want to Zoom email me 1st and use: <u>https://imperial-edu.zoom.us/j/2198947419</u>

Course Requirements and Instructional Methods

- Lecture Quizzes: A short quiz on lecture material will periodically be given at the beginning of class. Quizzes are worth 5-15 points each with **no makeup** quizzes allowed. Quizzes will not be given on lecture exam days.
- Lecture Exams: Under normal circumstances (Fall, Spring or 16-week semester), there will be 4 exams. There are no make-up exams. Exams will be graded and then returned as soon as possible. Only non-programable calculators are allowed.
- **Safety** in the laboratory is of utmost importance those who do not follow the outlined safety procedures will either have points deducted from their lab score or asked to leave the lab during that lab. Closed toed shoes and goggles are required.
- Laboratory: All experiments are required to be prepared as formal lab write-ups as described in the lab notebook handout (which you will receive in class). The core of the write-up in your notebook will include the title, objective, and procedures, and must be done **prior** to the start of the lab. In order to begin an experiment, the instructor must initial the pre-lab. This is necessary to ensure safety in the lab. In addition, each lab experiment will require a data, calculations, and



discussion write-up that is completed in your lab notebook. There are no lab make-ups. Unless otherwise instructed, each student will work on experiments individually.

- Lab Notebook: You will not be allowed to start an experiment until the Prelab is completed and checked; this is worth 1 point. Experiments are due as directed; late experiments are acceptable with a loss of points (one point per lab point) up to the lab before the lab exam. Your lab notebook can be used on lab exams.
- **Completed experimental lab write**-ups are due the following lab meeting however if there are problems with calculations a second lab day is allowed for turning labs in for grading. After that **1 pt will be lost per lab day late.** NOTE, the definition of a Lab Day is at the end of the Lab period since labs are ONLY graded during lab, and never between labs; in other words, the next lab day starts at the end of that day lab or any lab graded after that lab is officially over is considered the next lab day. Lab notebooks are handed in after each lab exam to get a tally of points, however ungraded labs are considered late on lab exam day.
- Lab Exams: Lab exams will contain problems and/or explanation type questions based on the preceding laboratory experiments. Your Lab Notebook can be used during the Lab Exams. There are 2 Lab exams Fall and Spring, each of which count toward your course grade. No Make-up Lab exams will be allowed. This Point Total is added to your Lecture Score to obtain a total score that includes both the lecture and lab component of this class. Only non-programable calculators are allowed.
- **Lab Cleanup** The entire class will lose points if the sinks, scales, hoods, floor are not clean, chemical caps not screwed back on, and chairs not put in place. The class can lose up to 10 points per lab.
- **Final Exam**: The Final Exam is comprehensive. Final exam questions are in multiple-choice format. You must purchase an 882-E, 50 questions per side, Scranton for the Final Exam. There are **no make-ups** because the date and time of the Final is the last day of class. Only non-programable calculators are allowed.
- **Out of Class Assignments**: The Department of Education policy states that one (1) credit hour is the amount of student work that reasonably approximates not less than one hour of class time <u>and</u> two (2) hours of out-of-class time per week over the span of a semester. WASC has adopted a similar requirement.
- You must (1) remember your locker combination-after locker check-in, (2) bring goggle or eye safety glasses, (3) closed toed shoes to be in the lab; you are not furnished these and (4) calculators for exams. Forgetting to do so will cost you 5 points.
- **Zoom face-to-face**: Zoom is for a video face-to-face instruction; we can work on homework problems etc. In Canvas, on the left banner is a link to "ConferZoom." Since this is new, and I don't know when students want to video/conference call, first contact me (Cranium Café/email) then we can initiate a Zoom Conference.
- Fisher Zoom: https://cccconfer.zoom.us/j/9867876993
- **<u>Pronto</u>** is on Canvas.



Course Grading Based on Course Objectives

- **Study Hints:** Chemistry is a very demanding course. Depending on your background, you will need to spend 1-4 hours outside of lab to get your work done. Missing a lecture usually means your grade falls by ½ grade.
- Do not fall behind so:
 - Go to office hours
 - Get a tutor
 - Form study groups
- No Gifts, cards, or food; all will be refused. Spend your time and effort studying.
- Don't try to cram! It doesn't work.
- Keep up!

In-class quizzes	10 @ 5	50 pts
Exams	4 @ 100	400 pts
Labs	12 @ 10	120 pts
Labs Lab Cleanup Locker Checkout	14@-10	("-" points lost if necessary) -20 pts if not present
Final Exam	200 pts	
TOTAL (about)	≈800 pts	

Letter grades will be assigned based upon the % of points earned: Grading scale, A: 90-100%; B: 80-89%, C: 70-79%, D: 60-69, F: <59.

Academic Honesty (Artificial Intelligence -AI)

AI is allowed and encouraged in this class.

IVC values critical thinking and communication skills and considers academic integrity essential to learning. Using AI tools as a replacement for your own thinking, writing, or quantitative reasoning goes against both our mission and academic honesty policy and will be considered academic dishonesty, or plagiarism unless you have been instructed to do so by your instructor. In case of any uncertainty regarding the ethical use of AI tools, students are encouraged to reach out to their instructors for clarification.

The following kinds of honesty violations and their definitions are not meant to be exhaustive. Rather, they are intended to serve as examples of unacceptable academic conduct.

• <u>Plagiarism</u> is taking and presenting as one's own the writings or ideas of others, without citing the source. You should understand the concept of plagiarism and keep it in mind when taking exams and preparing written materials. If you do not understand how to "cite a source" correctly, you must ask for help.



• <u>Cheating</u> is defined as fraud, deceit, or dishonesty in an academic assignment, or using or attempting to use materials, or assisting others in using materials that are prohibited or inappropriate in the context of the academic assignment in question.

Anyone caught cheating or plagiarizing will receive a zero (0) on the exam or assignment, and the instructor may report the incident to the Campus Disciplinary Officer, who may place related documentation in a file. Repeated acts of cheating may result in an F in the course and/or disciplinary action. Please refer to the <u>General Catalog</u> for more information on academic dishonesty or other misconduct. Acts of cheating include, but are not limited to, the following: (a) plagiarism; (b) copying or attempting to copy from others during an examination or on an assignment; (c) communicating test information with another person during an examination; (d) allowing others to do an assignment or portion of an assignment; (e) using a commercial term paper service.

Course Policies

Attendance

- A student who fails to attend the first meeting of a class or does not complete the first mandatory activity of a class will be dropped by the instructor as of the first official meeting of that class. Should readmission be desired, the student's status will be the same as that of any other student who desires to add a class. It is the student's responsibility to drop or officially withdraw from the class. See <u>General Catalog</u> for details.
- Regular attendance in all classes is expected of all students. A student whose continuous, unexcused absence exceed the number of hours the class is scheduled to meet per week may be dropped; Chemistry 100, four units, is six hours and all other Chemistry courses, five units, are nine hours. For online courses, students who fail to complete required activities for two consecutive weeks may be considered to have excessive absences and may be dropped.
- Lab Attendance is recorded just as lecture attendance. If you miss the safety or introduction of the lab, <u>first 5-10 minutes</u>, you will not be able to attend that lab, and there are not lab makeups. You will receive no points for a lab you miss. Two (2) unexcused absences and you will be dropped. You may be asked to have your lab signed by the Instructor at the beginning and end of the lab to receive any credit. Since Closed Toed Shoes are mandatory for Lab, not having closed toed shoes will not count as an absence, and you will NOT receive credit for the lab. Locker checkout counts as 2 labs or 20 points.
- Absences attributed to the representation of the college at officially approved events (conferences, contests, and field trips) will be counted as 'excused' absences.

Classroom Etiquette

- <u>Electronic Devices</u>: Cell phones and electronic devices must be turned off and put away during class, unless otherwise directed by the instructor.
- <u>Food and Drink</u> are prohibited in all classrooms. Water bottles with lids/caps are the only exception. Additional restrictions will apply in labs. Please comply as directed by the instructor.
- **Disruptive Students:** Students who disrupt or interfere with a class may be sent out of the room and told to meet with the Campus Disciplinary Officer before returning to continue with coursework. Disciplinary procedures will be followed as outlined in the <u>General Catalog</u>.

Updated 8/11/2025



• <u>Children in the classroom</u>: Due to college rules and state laws, no one who is not enrolled in the class may attend, including children.

IVC Student Resources

Student Services

Imperial Valley College offers various services in support of student success. The following are some of the services available for students. Please speak to your instructor about additional services which may be available.

- CANVAS LMS. Canvas is Imperial Valley College's main Learning Management System. To log onto Canvas, use this link: <u>Canvas Student Login</u>. The <u>Canvas Student Guides Site</u> provides a variety of support available to students 24 hours per day. Additionally, a 24/7 Canvas Support Hotline is available for students to use: 877-893-9853.
- <u>Learning Services</u>. There are several learning labs on campus to assist students through the use of computers and tutors. Please consult your <u>Campus Map</u> for the <u>Math Lab</u>; <u>Reading, Writing & Language Labs</u>; and the <u>Study Skills Center</u>.
- <u>Library Services</u>. There is more to our library than just books. You have access to tutors in the <u>Study</u> <u>Skills Center</u>, study rooms for small groups, and online access to a wealth of resources.

Disabled Students Programs and Services (DSPS)

Any student with a documented disability who may need educational accommodations should notify the instructor or the <u>Disabled Student Programs and Services</u> (DSP&S) office as soon as possible. The DSP&S office is located in Building 2100, telephone 760-355-6313. Please contact them if you feel you need to be evaluated for educational accommodations.

Student Counseling and Health Services

Students have counseling and health services available, provided by the pre-paid Student Health Fee.

- <u>Student Health Center</u>. A Student Health Nurse is available on campus. In addition, Pioneers Memorial Healthcare District provide basic health services for students, such as first aid and care for minor illnesses. Contact the IVC <u>Student Health Center</u> at 760-355-6128 in Room 1536 for more information.
- <u>Mental Health Counseling Services</u>. Short-term individual, couples, family and group counseling services are available for currently enrolled students. Services are provided in a confidential, supportive, and culturally sensitive environment. Please contact the IVC Mental Health Counseling Services at 760-355-6310 or in the building 1536 for appointments or more information.

Veteran's Center

The mission of the <u>IVC Military and Veteran Success Center</u> is to provide a holistic approach to serving military/veteran students on three key areas: 1) Academics, 2) Health and Wellness, and 3) Camaraderie; to serve as a central hub that connects military/veteran students, as well as their families, to campus and community resources. Their goal is to ensure a seamless transition from military to civilian life. The Center is located in Building 600 (Office 624), telephone 760-355-6141.



Student Equity Program

- The Student Equity Program strives to improve Imperial Valley College's success outcomes, particularly for students who have been historically underrepresented and underserved. The college identifies strategies to monitor and address equity issues, making efforts to mitigate any disproportionate impact on student success and achievement. Our institutional data provides insight surrounding student populations who historically, are not fully represented. Student Equity addresses disparities and/or disproportionate impact in student success across disaggregated student equity groups including gender, ethnicity, disability status, financial need, Veterans, foster youth, homelessness, and formerly incarcerated students. The Student Equity Program provides direct supportive services to empower students experiencing insecurities related to food, housing, transportation, textbooks, and shower access. We recognize that students who struggle meeting their basic needs are also at an academic and economic disadvantage, creating barriers to academic success and wellness. We strive to remove barriers that affect IVC students' access to education, degree and certificate completion, successful completion of developmental math and English courses, and the ability to transfer to a university. Contact: 760.355.5736 or 760.355.5733 Building 100.
- The Student Equity Program also houses IVC's Homeless Liaison, who provides direct services, campus, and community referrals to students experiencing homelessness as defined by the McKinney-Vento Act. Contact: 760.355.5736 Building 100.

Student Right

Students have the right to experience a positive learning environment and to due process of law. For more information regarding student rights and responsibilities, please refer to the IVC <u>General Catalog</u>.



Organic Chemistry (Global ed.)	Organic Chemistry
10 th ed. 2022	Map: Organic Chemistry (Wade), Complete
Leroy Wade	and Semesters I and II - Chemistry LibreTexts
Primary text	Leroy Wade
Book	Part 1
Part 1	1. Intro and review (1)
1. Structure and Bonding	2. Structure and Properties (1 & 2)
2. Acids and bases: functional groups	3. Functional groups and nomenclature
3. Structure and Stereochemistry of	(2)
alkanes	4. Structure and stereochemistry of
4. The study of chemical reactions	alkanes (3)
5. Stereochemistry	5. Intro to organic reactions and free
6. Alkyl halides, Nu substitution	radical halogenation (4)
7. Structure and synthesis of alkenes, E	6. Stereochemistry (5)
8. Reactions of alkenes	7. Alkyl halides Nu and E (6)
9. Alkynes	8. Structure and synthesis of alkenes (7)
10. Structure and synthesis of alcohols	9. Reactions of alkenes (8)
11. Reactions of alcohols	10. Alkynes (9)
12. IR and Mass Spec	11. IR and Mass Spec (12, 13)
13. NMR	12. NMR (13)
Part 2	Part 2
14. Ethers, epoxides, thioethers	13. Structure and synthesis of alcohols
15. Conjugated systems, orbital symmetry, UV	(10) 14 Desetions of clockels (11)
	14. Reactions of alcohols (11)
16. Aromatic	15. Ethers, epoxides and thioethers (14)
17. Reactions of Aromatic	16. Conjugated systems, UV (15)
 Ketones and Aldehydes Amines 	17. Aromatic (16)
20. Carboxylic acids	18. Reactions aromatic (17)
20. Carboxylic acid derivatives	19. Ketones and aldehydes (18) 20. Amines (19)
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22. Condensation of carbonyl or enols23. Carbohydrates and Nucleic acids	21. Carboxylic acids (20)22. Carboxylic acids and derivatives (21)
23. Carbonydrates and Nucleic acids 24. Amino acids, peptides and proteins	23. Condensation of carbonyl or enols
24. Annuo acids, peptides and proteins 25. Lipids	(22)
26. Polymers	24. Carbohydrates and Nucleic acids (23)
20. i orymois	25. Amino acids, peptides and proteins
	(24)
	26. Lipids (25)
	27. Nucleic acids (N/A)



Anticipated Class Schedule/Calendar

Subject to change without prior notice

Organic Chemistry I 204 (10519)					
			Monday & Wednesday		
			Lecture 8:00-9:25AM & Lab 9:40-12:50		
Fall 2025					
Room 2716					
Wk #	Wk of				
1	8/11	Mon	Lecture: Intro		
			Lab: Safety & Locker check-in		
		Wed	Ch 01 Basic Bonding		
			Discussion Lab 01 & 02		
2	8/18	Mon	Ch 01 Basic Bonding		
			Lab 01		
		Wed	Ch 01 Basic Bonding		
			Lab 02		
3	8/25	Mon	Ch 02 Acids and Bases Functional Groups		
			Discussion Lab 03 & 04		
		Wed	Ch 02 Acids and Bases Functional Groups		
			Lab 03		
4	9/1	Mon	Holiday		
		Wed	Ch 03 Structure and Stereochemistry of alkanes		
			Exam 1		
5	9/8	Mon	Ch 03 Structure and Stereochemistry of alkanes		
			Lab 04		
		Wed	Ch 04 The study of chemical reactions		
			Discussion Lab 05 & 06		
6	9/15	Mon	Ch 04 The study of chemical reactions		
			Lab 05		
		Wed	Ch 05 Stereochemistry		
			Lab 05		
7	9/22	Mon	Ch 05 Stereochemistry		
			Lab 06		
		Wed	Ch 06 Alkyl halides, Nu substitution		
			Discussion Lab 07 & 08		
8	9/29	Mon	Ch 06 Alkyl halides, Nu substitution		
			Lab 08 day 1		
		Wed	Ch 07 Structure and synthesis of alkenes, E		
			Exam 2		



9 10/6 Mon Ch 07 Structure and synthesis of alkenes, E 1ab 08 day 2 Ch 08 Reactions of alkenes Discussion Lab 09 & 10 10 10/13 Mon Ch 08 Reactions of alkenes 10 10/13 Mon Ch 08 Reactions of alkenes 10 10/13 Mon Ch 09 Alkynes 11 Ved Ch 09 Alkynes 11 10/20 Mon Ch 10 Structure and synthesis of alcohols 12 10/27 Mon Ch 10 Structure and synthesis of alcohols 13 10/27 Mon Ch 10 Structure and synthesis of alcohols 14 10/27 Mon Ch 11 Reactions of alcohols 13 11/3 Mon Ch 11 Reactions of alcohols 14 11/10 Mon Ch 12 IR and Mass Spec 15 11/17 Mon Ch 13 NMR 14 11/17 Mon Ch 13 NMR 16 12/1 Kand Mass Spec 16 12/1 Mon				
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