

## CHEM& 261

### Organic Chemistry I - Intensive

Summer Quarter 2022

**Instructor:** Dr. Daniel Mitchell

**Office:** S340K

**Office Hours:** TW after 5:00PM, MTh before lecture, F after lecture

**Meeting times**

**Lecture:** All: MTWThF 10:30AM-2:00PM in S324

**Lab:** Section A: TWThF 7:30AM-10:20AM in S314

Section B: MTWTh 2:10PM-5:00PM in S314

**Cell Phone:** 206-660-2484

**Office Phone:** 425-564-2474

**Email:** [dmitchel@bellevuecollege.edu](mailto:dmitchel@bellevuecollege.edu)

**Textbooks and Equipment:**

Required: Klein, D.R. "Organic Chemistry" 3rd edition, Wiley, 2017

Required: Pavia, Lampman, Kriz, Engel. "Organic Laboratory Techniques" 6<sup>th</sup> Edition, Thomson Brooks/Cole, 2018

Required: Soft-side safety goggles with splash guards (*available at bookstore*)

*Optional:* Klein, D.R. "Organic Chemistry, Student Study Guide and Solutions Manual" 3rd edition, Wiley, 2017

*Optional but highly recommended:* A notebook that is divided into clearly marked sections for lecture note-taking, text note-taking, workspace for problem solving, and questions to be asked in class, in group study, or during office hours.

*Optional but highly recommended:* A model kit (HGS Model Kit recommended, available from the bookstore.)

*Optional but very highly recommended:* The old BC Organic chemistry exams, available at the bookstore.

**Holidays:** July 4<sup>th</sup>

**Quarter:** Our intensive 1<sup>st</sup> block summer class runs from June 27<sup>th</sup> through July 14<sup>th</sup>

**Course Objectives:** The first half of this class will cover basic organic chemistry, nomenclature, functional groups, acid-base properties, and basic mechanics. The second half of the quarter will cover stereochemistry, and begin reactions including: S<sub>N</sub>1, S<sub>N</sub>2, E1, and E2.

Assigned Points (subject to change):

Daily Quizzes – 10 @ 30 points	300 points
Laboratory Reports	90 points
Final Exam (through Part 8)	130 points
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Total	520 points
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Other	points
New Total	points

The grading scale will be a modified curve, if appropriate. You cannot do worse than the values given in the table above for a particular percentage of total points. I **will not** apply a grading adjustment if the class average is higher than 75%.

**Grade Point Based  
on a Percentage of  
Total Assigned Points**

A	95-100
A-	90-94
B+	87-89
B	83-86
B-	80-82
C+	77-79
C	73-76
C-	70-72
D	60-69
F	≤ 59%

### Course Outline and Test Schedule

Day	Chapter Reading Assignments in Bruice
June 27-29	Ch. 1 and 3 – Electronic Structure and Bonding – Acids and Bases
June 29-30, July 1	Ch. 2,4, and 6 – An Introduction to Organic Compounds Ch. 17 – Delocalized Electrons and Their Effect on Stability
July 5	Ch. 8 – Alkenes: Structure, Nomenclature, and Intro to Reactivity
July 6-7	Ch. 9 – The Reactions of Alkenes
July 8	Ch. 5 – Stereochemistry <b>Friday, July 8 - Last Day to Withdraw (W)</b>
July 11-12	Ch. 7 – Substitution Reactions of Alkyl Halides
July 12-13	Ch. 8 – Elimination Reactions of Alkyl Halides
July 14	<b>Final Exam Thursday, July 14<sup>th</sup>, 10:30AM-12:00PM</b>

*Last day to drop with 100% refund is 6/27. 50% refund is 7/1. W ends on 7/8.*

**The final exam is cumulative. The final exam will be given on Thursday, July 14<sup>th</sup>, at 10:30AM – 12:00PM.**

### Schedule of Laboratory Sessions for CHE 261

#### **Lab Reports:**

All of the labs this quarter are done in pairs. All labs require the following lab reports: no procedure is required, a table for results and data, an analysis of the results (be more detailed if your results are poor), and answers to the given questions. Analyze what happened during the lab, including an analysis of error. Your explanations should have **valid scientific basis**, and be **relatively in depth**. If the data is “good,” less explanation is needed. “Good” data should be considered within 3 degrees melting point for purity. Yield and other data should always be fully discussed (as 100% yield is often not possible). If you cannot find any error in your data, hypothesize a reasonable potential source.

Lab reports are worth 10 points each. There is a final lab worth 20 points. A typed lab report is **due two (school) days** after the conclusion of each lab. Late assignments will be penalized 15% per day past up to a maximum deduction of 50%.

#### **Pre-Lab Work:**

You will not be allowed to use the lab textbook during lab. Any information from the textbook that you think you may need should be in your **lab notebook** hand-written (this is my version of you writing a procedure). Not having a procedure in your notebook will be a deduction of 3 points from the lab report (I do check every lab)! Occasionally, the wording of the text can be esoteric or vague. Feel free to come by my office and ask me anything about the lab you wish, even if you are worried it is a rudimentary question. But please ask me *before* lab begins.

**A typed lab report is due two (school) days after the conclusion of each lab.**

Section A – 7:30 Lab	Section B – 2:10 Lab	Experiment	Questions
June 29	June 28	Solubility (Exp. 2, A-D only)	1, 2, 3, 5
Jun 30	June 29	Crystallization (Exp. 3, A and C only)	1, 2, 3
July 1	June 30	Aspirin (Exp. 9)	3, 4, 5, 6, 7
July 6	July 5	Extraction (Exp. 4, A-D)	1, 2
July 7	July 6	Miscellaneous (Exp. 2E, 3E, and 4D)	Handout
July 8	July 7	Chromatography (Remote or TBD)	TBD
July 12	July 11	Reactivities of Alkyl Halides (Exp. 21)	1, 2, 4, 6
July 13	July 12	Lab Final	

The final lab report will be collected in lab.

**Lab Safety:** We will be using dangerous chemicals this quarter, and safety should be your primary concern. You are required to bring and wear goggles (I have none to lend) for each and every lab even if the chemicals we are dealing with do not appear harmful, and to dress appropriately (no open toed shoes, shorts, or skirts). You will not be allowed into the lab if you do not bring goggles, or if you show up late for lab. There are no makeup labs.

**Lab Grade:** The lab portion of your grade is based on seven 10-point lab reports, and 20 points for a lab final. Points will be deducted if you leave your lab station or communal areas a mess, recklessly waste chemicals, break an inordinate amount of glassware (a small amount of breakage is inevitable), have to be continually reminded to put on your goggles, or do not come to lab prepared.

## Chem 261 Course website—CANVAS:

I use an online course management system called CANVAS to post PowerPoint slides, online quizzes, handouts, answer keys, grades, discussion forums, etc... It is **required** that you log into CANVAS.

1) Go to <http://bc.instructure.com>

2) Log in with your Bellevue College account information (be sure to check your BC email FREQUENTLY).

3) **Complete and submit the notifications assignment (this is worth points).**

4) Browse around. Maybe setup an avatar or put something about yourself in your profile.

## Evaluation and Grading:

Tests and Final Exam: There will be 11 (possibly 10) daily 20 minute in-class quizzes (every day except for the first and last day). All new material from before the day of a quiz is subject to examination. As organic chemistry is cumulative, older material will appear as well. The final exam is cumulative. The final exam will not be returned.

Online Quizzes: Most days I will launch an online quiz on Canvas that you can take for practice – it is not worth class points. These quizzes will contain questions that are often asked on the in-class exams which are worth credit. Therefore, it is strongly to your advantage to take these online quizzes seriously. In a non-intensive course, these quizzes are worth credit, so I consider them a part of the learning process, especially as they cover some of the abstract topics quite well.

Homework: If you wish to fully develop your problem solving skills to be evaluated on tests and quizzes, you should spend a **minimum** of 2 hours study outside of class for each hour of lecture. You should not expect all problems on tests to be similar to those that you do for homework or to those covered in lecture – much of organic chem 2 and 3 involves critical thinking. Your preparation for a test should include working problems that go beyond a given assignment.

I cannot stress enough that in organic chemistry practice is required. Memorization is only the beginning. On Canvas I have posted 8 years worth of old exams. Use these for your studying purposes. For learning synthesis, there is no substitute for practice. (Although mechanisms are somewhat brute force.)

## Course Policies:

Tests, Quizzes and Exams: Please be sure that you have no conflicts with the scheduled test/quiz dates as **NO** make-up tests/quizzes will be given, except in cases of documented illness or family emergency. If you know on the first day of class that you will not be here for a given test/quiz date, it is your responsibility to immediately inform me. If you inform me of a conflict less than two days in advance of a given test/quiz date I will not accommodate you. Students must notify me of an illness/emergency that will cause you to miss a test/quiz by leaving a message on my phone (206-660-2484) or by email ([dmitchel@bellevuecollege.edu](mailto:dmitchel@bellevuecollege.edu)) prior to the start of a test/quiz. The final exam is not optional! If you do not take the final, you will fail!

Attendance: There are no points assigned for attendance – although there will be a daily exam. It is very important you attend class, as I base all my exams (and the final) on the material we discuss in lecture. If you miss a class, it is your responsibility to obtain lecture notes, handouts, assignments, announcements, etc. from other classmates, the library, the web, or the Canvas site. Please do not email me to ask what you missed.

Conduct: Rudeness, tardiness, chatter during lecture, and disrespect make learning difficult for everyone around you, and will not be tolerated. This also applies to cellular phones and beepers; turn these devices off during our class. If you must leave before class ends take your seat towards the back of the lecture room. You are responsible for all announcements, lecture notes, assignments, and handouts. Drinks with lids are permitted. Food is permitted if you are careful to keep it non-distracting.

\*\*\* The course outcomes for Chemistry 261 may be found at

[https://catalog.bellevuecollege.edu/preview\\_course\\_nopop.php?catoid=9&coid=35628](https://catalog.bellevuecollege.edu/preview_course_nopop.php?catoid=9&coid=35628)

BC Academic Success Center: <http://bellevuecollege.edu/asc> The ASC offers free tutoring, and paid positions for student tutors.

## Counseling Services

These are tough times for many of us, financially, personally, emotionally. The BC Counseling Center is using a free and secure web-based program called Doxy.Me. This allows you to meet with a BC mental health counselor via video conferencing. Appointments are available Monday-Friday 8:00am – 5:00pm. Go to: <https://bellevuecollege.edu/counseling> or call them at 425-564-5747.

## Other Offices and Resources:

Financial Aid | United Way Benefits Hub | The Women's Center and Center for Career Connections  
Academic Advising | Flu Team: COVID-19 resource page

**Science Division Policy on Cheating:** You, the student, are expected to conduct yourself with integrity. If you cheat, or aid someone else in cheating, you violate a trust. Cheating includes, but is not limited to, copying answers on tests or assignments, glancing at nearby test papers, swapping papers, stealing, plagiarizing, and illicitly giving or receiving help on exams. If you cheat, the following actions will be taken:

- 1) You will receive a grade of zero on the work where the cheating occurred. This grade cannot be dropped.
- 2) A report of the incident will be sent to the Dean of Students. He/she may file a report in your permanent record of take further disciplinary action such as suspension or expulsion from the college.
- 3) If you feel you have been unfairly accused of cheating, you may appeal. For a description of the due process see WAC 132H-120.

## DRC:

The Disability Resource Center serves students with disabilities. Common disabilities include physical, neurological (e.g. Autism, ADD/ADHD), and mental health (e.g. depression, anxiety). If you are a student who has a disability or if you think you may need accommodations in order to have equal access in your classes, programs, activities, and any other services, please contact the DRC.

If you require assistance in an emergency, please meet with your individual instructors to develop a safety plan for while in class and contact the DRC to develop a safety plan for while you are elsewhere on campus.

The DRC office is located in building U Room 001. You can contact the DRC by stopping by the office at B132, calling our front desk phone number (425) 564-2498, emailing [drc@bellevuecollege.edu](mailto:drc@bellevuecollege.edu). Deaf students can reach us by calling TTY: (425) 564-6189, or by Skype (account name **DRCatBC**). For more information about the services we offer, including our Initial Access Application, visit our website at [Disability Resource Center](http://www.bellevuecollege.edu/drc) (<http://www.bellevuecollege.edu/drc>).

Service Animals are allowed in this classroom. Emotional Support Animals need to be approved through the DRC. All other animals will be asked to leave. If you believe you need your animal with you, please connect with the DRC and refrain from bringing your animal until a decision has been made.

## Affirmation of Inclusion

Bellevue College affirms the diversity of human identities and experiences and is committed to creating spaces free from harassment and discrimination (4000 Institutional Commitment to Inclusion). Furthermore, Bellevue College rejects all forms of racism, homophobia, sexism, xenophobia, religious intolerance, classism, ableism, ageism, language bias, and hate speech or actions that attempt to silence, threaten, or degrade others.

In classroom settings, we might disagree with views shared in the classroom; however, courteous, and respectful behavior and responses are always expected. When providing criticism, it is important to focus on the ideas and not the person.

Faculty are encouraged to disrupt and address hate speech and behaviors. Students are also encouraged to speak up and advocate when they experience, or witness hate speech and behaviors. Faculty, staff, and students also are encouraged to submit a report to the CARE Team regarding any concerns of discrimination, harassment, or inappropriate and disrespectful conduct.

[Affirmation of Inclusion](https://www.bellevuecollege.edu/inclusion/) (<https://www.bellevuecollege.edu/inclusion/>)

## Reasons of Faith and Conscience

Reasonable Accommodations for Reasons of Faith and Conscience: Students who will be absent from course activities due to reasons of faith or conscience may seek reasonable accommodation so that grades are not impacted. Such requests must be made within the first two weeks of the course to the office of the Associate Vice President of Student Affairs (see Bellevue College Policy 2950 (<https://www.bellevuecollege.edu/policies/id2950/>)). In the event you feel you are being discriminated against based on faith or conscience, you may refer to the procedures outlined in the college's [Discrimination, Harassment and Retaliation Policy 1440P](https://www.bellevuecollege.edu/policies/id-1440p/) (<https://www.bellevuecollege.edu/policies/id-1440p/>).

**Annual Notice Non-Discrimination**

Bellevue College does not discriminate on the basis of race or ethnicity; creed; color; national origin; sex; marital status; sexual orientation; age; religion; genetic information; the presence of any sensory, mental, or physical disability; or veteran status in educational programs and activities which it operates. Bellevue College is prohibited from discriminating in such a manner by college policy and by state and federal law. All college personnel and persons, vendors, and organizations with whom the college does business are required to comply with applicable federal and state statutes and regulations designed to promote affirmative action and equal opportunity.

Reports of gender and sex-based discrimination, sexual misconduct, or retaliation by a student should be raised with the Title IX office (see 1440P2 for contact information). In cases where the impacted party is a student and the responding party is a college employee, the Title IX coordinator will direct the matter to the Office of Human Resources (HR). All other reports, including all reports where the impacted party is an employee, should be raised with the HR. If a report is against personnel in the Title IX office or HR, it should be submitted to the president's office for referral to an alternate designee.

[Equal Opportunity](http://www.bellevuecollege.edu/equal/) (<http://www.bellevuecollege.edu/equal/>)

**Confidentiality and Mandatory Reporting**

As an instructor, one of my responsibilities is to help create a safe learning environment on our campus. It is my goal that you feel able to share information related to your life experiences in classroom discussions, in your written work, and in our one-on-one meetings. I will seek to keep information you share private to the greatest extent possible. However, I am required to share with the Title IX Coordinator any and all information regarding sexual assault and other forms of sexual misconduct (e.g. relationship violence, stalking) that may have occurred on campus or that impacts someone on campus. Students may speak to someone confidentially by contacting the BC Counseling Center at (425) 564-2212. The Title IX Office can be contacted at 425-564-2641 and more information can be found at [Title IX](http://www.bellevuecollege.edu/titleix/) (<http://www.bellevuecollege.edu/titleix/>).

If you have any concerns, you may report to: [Report Concerns](https://www.bellevuecollege.edu/reportconcerns/) (<https://www.bellevuecollege.edu/reportconcerns/>).

**Student Conduct Code and Academic Integrity**

Any act of academic dishonesty, including cheating, plagiarism (using the ideas or words of another as one's own without crediting the source), and fabrication, and inappropriate/disruptive classroom behavior are violations of the Student Conduct Code of Bellevue College. Examples of disruptive behavior include, but are not limited to, repeatedly talking out of turn, arriving late or leaving early without a valid reason, allowing cell phones to ring, and inappropriate behavior toward the instructor or classmates. The instructor can refer any violation of the Student Conduct Code to the Manager of Student Conduct for investigation. Specific student rights, responsibilities, and appeal procedures are listed in the Student Conduct Code at: [Student Code](#)