CHEM 3331.500 Organic Chemistry I
3 Credits

QUESTIONS: Please read this syllabus first and then check the Announcements and the Course Questions in D2L. If you have any questions and can’t find answers there, then email me via D2L. Thank you!

* Please remember that you are responsible for knowing and abiding by all information in this syllabus. The content and dates may be modified at the instructor’s discretion. Any changes made will be informed via course announcements in D2L.*

This syllabus is your top go-to guide for assignments and due dates. If you see something on the syllabus but cannot locate it within D2L, please do not assume the assignment has been deleted. Instead, email your instructor.

Instructor Information:

Instructor: Matibur Zamadar, Ph.D.
College: College of Sciences and Mathematics
Department: Chemistry and Biochemistry
Office: Room 104A; Chemistry
Office Hours: Monday & Wednesday 12:30 pm-2:00 pm, Thursday 11:30 am-1:30 pm via zoom or in-person
Office Phone: (936)-468-2243
Email: Message me via D2L please by logging into the course and using the email icon to the top right (alternative, IF D2L is down: zamadarmr@sfasu.edu).

Course Information:

Times: There are no required face-to-face meeting as this course is delivered fully online via D2L, however, please remember that each “Week” starts on Monday morning and ends on Sunday at 11:59pm. All due dates in the syllabus and D2L are based on CDT/CST (Texas) time zones. Late assignments or extensions will not be considered due to difference in time zones.

Prerequisites: A grade of C CHEM 1312 & CHEM 1112 (or their equivalents).
Corequisite: CHEM 3131

Required Texts and Other Materials:
Course Syllabus: CHEM 3331  Organic Chemistry I  Fall 2023

- Organic Chemistry (4th ed.) by David Klein
- 2 semester WileyPLUS Access (includes eBook) – 978-1-119-76106-8
- 2 semester WileyPLUS Access (includes eBook) + Loose Leaf Version - 978-1-119-65955-6
- Notebook paper & pencils
- A quiet place to study regularly

Supplementary Readings:
- Handouts will be posted on D2L after each lecture session. You are free to download these and/or print them out for your study.
- A solutions manual for the main lecture text is also available for purchase. It is not required, and it makes no difference to me whether you purchase it or not. I do have a solutions manual in my office that you are welcome to use during my office hours.

To register for CHEM-3331 on WileyPLUS: Please look at the attached handout on D2L

Course Description:

Upon completion of CHE 3332, students will be able to:
1. Identify the various organic functional groups present in the structure of an organic molecule.
2. Give the correct name of an organic compound when provided the structure of the compound, and give the correct structure of a compound when provided the name.
3. Illustrate basic concepts of structure and bonding in organic compounds, including constitutional isomerism, stereoisomerism, conformational analysis, and structural effects on the physical and chemical properties of organic compounds.
4. Apply fundamental chemical principles including: thermodynamics, kinetics, and acid-base behavior to explain the chemical behavior and reactivity of organic compounds.
5. Illustrate basic concepts relating to reactivity of organic compounds, including: substitution, addition, elimination, oxidation-reduction, free radical, and pericyclic reactions and the mechanisms for these reactions.
6. Predict the product(s) of an organic reaction(s) consisting of one or several steps, correctly taking into account aspects of stereo-, regio-, and chemoselectivity.
7. Formulate a reasonable multi-step synthesis of an organic compound from a specified starting material.
8. Analyze spectroscopic data (IR, MS, and 1H-NMR) in order to elucidate the correct structure of a molecule, including being able to assign correctly various spectral attributes and features to a particular portion of a molecule’s structure.

To be successful in this course you should do the following:
- Begin the course with positive attitude and desire to learn!
• Get prepared on your first day of the session with your textbook, syllabus, and computer/internet.
• Read the syllabus carefully and mark your calendar for all assignments and deadlines accordingly. Take a note of course policies and other important directions.
• Familiarized yourself of how to use SFA's online D2L system for this course: http://www.sfaonline.info/d2ltutorials
• Check daily course announcements and D2L email for updates in course information, due dates, assignments, changes etc.
• Sign up for D2L notifications. This will allow you to receive messages in your email, as well as in your phone about due dates, announcements, grades, and more: For signing up, log into D2L, and click on the arrow by your profile (upper right-hand corner), and click on Notifications to manage these settings.
• Although, all due dates and assignments will be announced weekly via course announcement on the D2L course page but make sure, you always check due dates and assignments listed in the syllabus in a daily basis.
• Take notes while you are reading chapters and watching/listening to any course materials. A well-organized note always helps to do well in the exams. All materials including videos, homework, as well as quizzes will be considered as materials for the exam.
• Consider of submitting any assignments at least a few hours early and double-check to confirm what you submitted is the correct version in correct format. Please remember that whatever you have submitted by the deadline is what will be graded.
• Do not wait until the last minute to turn in your assignment.
• Do not forget to take a screenshot of all submitted course work and save them and also save all D2L submission receipts of Dropbox assignments.
• Should act as a problem-solver when issues arise (call tech support; use your back-up computer etc.)

I Am Having Trouble in Class. Where Can I Get Help?

• Paying a private tutor is many times NOT what students need if they are having trouble in the class. There are a number of resources that you have already paid for available to you on campus. I strongly recommend that you take advantage of following resources before paying additional money to a private tutor.

Some of these resources are:

• Your instructor: Come see me during office hours or email me to make an appointment. I should be your first line of defense. I know what material is being taught, what material will be on exams, and what material you need to know (after all, I am the one who writes the quizzes & exams). You’ve already paid for me when you paid your course tuition. Don’t hesitate to come for help. I want to see you improve and do well. Don’t think that your question is unimportant or that you are wasting my time. I have office hours to help you. That’s why they are there. Even if you are behind, come get help. In addition, take advantage of office hours to build professional relationships with
your professors. You never know when you’ll need a recommendation letter from them -- it is a lot easier to write a letter for a student who has done well and we know well

- You can get one-on-one tutoring at the AARC. Contact the AARC for more specific information on how to get a one-on-one tutor. You need to do this quickly, as only a limited number of slots are available and they fill up rapidly. There is also a Chemistry walk-in table at the AARC. Check with the AARC for more information.
- There will be a SI for this class.

Communication

There are a number of ways for us to communicate in this course:

- **Discussions**—Course discussion forum is designed to answer course-based questions throughout the semester. Please post any general questions about the course, the course content, or learning activities, to this discussion. We will use this forum to make sure we are connecting and that we all understand important course concepts together. I strongly encourage you to answer other students’ questions posted under Course Questions. If everyone is stuck, then your instructor will answer your question for more clarifications.

- **E-mail**—Please e-mail me via D2L by logging into the course and using the email icon to the top right. You can also use my alternative email address (zamadarmr@sfasu.edu) for communications. I will check the e-mail at least once in each weekday (Monday to Friday), and once on the weekend (probably Sunday nights). Please make sure you log on to the course each day and check for e-mails and responses.

- **Office Hours**—If you have any questions about the course materials, your grades, study tips or more related to the course, I strongly ask you to come visit me during my office hours. My office is located in the Chemistry building and room number is 104A. For this semester, my office hours on Monday & Wednesday 12:30 pm-2:00 pm, Thursday 11:00 am-1:00 pm via zoom or in-person. If I need to reschedule due to some unforeseen reason(s), I will announce in D2L.

- **Appointments:** You may request an office appointment with me, but I must have 24 hours advance notice, and we must mutually agree on an acceptable time.
- **Phone:** You can also contact me by calling at 936.468.2243 during my office hours.

Grading Policy:

*Weekly homework* – Homework will total 50 points (#points correct*50 / total points available). There will be a weekly homework administered via Mastering Chemistry web site. Students are required to get access to the Mastering Chemistry web site. Instructions on how to navigate the Mastering Chemistry web site are provided at the website.
4-hour exams (100 pts per test) cumulative with emphasis on the material covered since last. All these four exams will be administered via D2L. Students must have a working computer and internet access and need to log in promptly for taking exam. For any technical help, please call the D2L help line at 936-468-1919. Please remember they are available for assistance from Monday to Friday from 8:00 to 5:00 pm only. Exams will be online on D2L and will be proctored using Proctorio service provided by the university.

Final Exam (proctored exam) – Comprehensive exam worth 200 pts. Exam will be given only on D2L and will be proctored using Proctorio service provided by the university.

Missed Exams (Homework or Quizzes): Technological difficulties, lack of internet or computer access, failing to check D2L reminders and announcements, inability to access or use D2L, misremembering or mishearing exam deadlines will NOT be considered as valid excuses for missing an exam. Make-up exams are very rarely given, and require proper documentation (e.g., note of hospitalization) before the exam deadline has passed (in very rare cases, notification within 24 hrs of the missed exam may be accepted). It is up to the instructor to determine whether the documentation warrants a make-up exam. If you forget to take an exam, oversleep, or do not have a documented “excuse” for missing an exam, you need to schedule an appointment with me to discuss the matter and your ability to pass the course. In the absence of proper documentation, IF a make-up exam is given (not guaranteed & rarely offered), 30-50% will be deducted from the exam grade. For a proven, excused absence for an exam during the semester, a comprehensive make up exam will be accommodated.

Method of Evaluation: The final grade will be based upon percentage of points obtained in the following:

<table>
<thead>
<tr>
<th>item</th>
<th>point value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exam I</td>
<td>100</td>
</tr>
<tr>
<td>Exam II</td>
<td>100</td>
</tr>
<tr>
<td>Exam III</td>
<td>100</td>
</tr>
<tr>
<td>Exam IV</td>
<td>100</td>
</tr>
<tr>
<td>Final Exam</td>
<td>200</td>
</tr>
<tr>
<td>homework</td>
<td>150</td>
</tr>
<tr>
<td>TOTAL POINTS</td>
<td>750</td>
</tr>
</tbody>
</table>

Grading scale (Based on total of 750 points possible)  
>90% = A; >80% = B; >70% = C; >60% = D; < 60% = F

Attendance Check

Register your Attendance
Go to the Course Tools section and open the Discussion Tool, you will find at the top, 3 attendance checks— one for the **first class day**, one for the **5th class day**, and one for the **twelfth class day**. Please read and follow the directions for each one, so that you will be counted present for the official class roll.

**First class day attendance:** Please post your name, where you are from, and how long you have been at SFA as your first class day check in.

**Fifth class day attendance:** Please post your name and one really cool thing you have learned from previous week’s modules for your fifth class day roll call.

**Twelfth class day attendance:** Please post your name and your career ambitions and objectives for your twelfth class day attendance.

**Academic Integrity**

The Code of Student Conduct and Academic Integrity outlines the prohibited conduct by any student enrolled in a course at SFA. It is the responsibility of all members of all faculty, staff, and students to adhere to and uphold this policy.

Articles IV, VI, and VII of the new Code of Student Conduct and Academic Integrity outline the violations and procedures concerning academic conduct, including cheating, plagiarism, collusion, and misrepresentation. Cheating includes, but is not limited to: (1) Copying from the test paper (or other assignment) of another student, (2) Possession and/or use during a test of materials that are not authorized by the person giving the test, (3) Using, obtaining, or attempting to obtain by any means the whole or any part of a non-administered test, test key, homework solution, or computer program, or using a test that has been administered in prior classes or semesters without permission of the Faculty member, (4) Substituting for another person, or permitting another person to substitute for one’s self, to take a test, (5) Falsifying research data, laboratory reports, and/or other records or academic work offered for credit, (6) Using any sort of unauthorized resources or technology in completion of educational activities.

Plagiarism is the appropriation of material that is attributable in whole or in part to another source or the use of one’s own previous work in another context without citing that it was used previously, without any indication of the original source, including words, ideas, illustrations, structure, computer code, and other expression or media, and presenting that material as one’s own academic work being offered for credit or in conjunction with a program course or degree requirements.

Collusion is the unauthorized collaboration with another person in preparing academic assignments offered for credit or collaboration with another person to commit a violation of any provision of the rules on academic dishonesty, including disclosing and/or distributing the contents of an exam.
Misrepresentation is providing false grades or résumés; providing false or misleading information in an effort to receive a postponement or an extension on a test, quiz, or other assignment for the purpose of obtaining an academic or financial benefit for oneself or another individual or to injure another student academically or financially.

**Withheld Grades Semester Grades Policy (5.5)**

*Please copy and paste the following information regarding Withheld Grades into your syllabus. Add additional information as needed to meet your departmental or course needs.*

Ordinarily, at the discretion of the instructor of record and with the approval of the academic chair/director, a grade of WH will be assigned only if the student cannot complete the coursework because of unavoidable circumstances. Students must complete the work within one calendar year from the end of the semester in which they receive a WH, or the grade automatically becomes an F. If students register for the same course in future terms the WH will automatically become an F and will be counted as a repeated course to compute the grade point average. For additional information, go to [https://www.sfasu.edu/policies/course-grades-5.5.pdf](https://www.sfasu.edu/policies/course-grades-5.5.pdf).

**Students with Disabilities**

*Please copy the following statement and paste it into your course syllabus.*

To obtain disability-related accommodations, alternate formats, and/or auxiliary aids, students with disabilities must contact the Office of Disability Services (ODS), Human Services Building, and Room 325, 468-3004 / 468-1004 (TDD) as early as possible in the semester. Once verified, ODS will notify the course instructor and outline the accommodation and/or auxiliary aids to be provided. Failure to request services promptly may delay your accommodations. For additional information, go to [http://www.sfasu.edu/disabilityservices/](http://www.sfasu.edu/disabilityservices/).

*Please copy everything below and paste it into your course syllabus.*

**Student Wellness and Well-Being**

SFA values students’ overall well-being, mental health and the role it plays in academic and overall student success. Students may experience stressors that can impact both their academic experience and their personal well-being. These may include academic pressure and challenges associated with relationships, emotional well-being, alcohol and other drugs, identities, finances, etc.

If you are experiencing concerns, seeking help, SFA provides a variety of resources to support students’ mental health and wellness. Many of these resources are free, and all of them are confidential.

**On-campus Resources:**

The Dean of Students Office (Rusk Building, 3rd floor lobby)
SFA Human Services Counseling Clinic Human Services, Room 202
www.sfasu.edu/humanservices/139.asp
936.468.1041

The Health and Wellness Hub “The Hub”
Location: corner of E. College and Raguet St.

To support the health and well-being of every Lumberjack, the Health and Wellness Hub offers comprehensive services that treat the whole person – mind, body and spirit. Services include:

- Health Services
- Counseling Services
- Student Outreach and Support
- Food Pantry
- Wellness Coaching
- Alcohol and Other Drug Education

www.sfasu.edu/thehub
936.468.4008
thehub@sfasu.edu

Crisis Resources:

- Burke 24-hour crisis line: 1.800.392.8343
- National Suicide Crisis Prevention: 9-8-8
- Suicide Prevention Lifeline: 1.800.273.TALK (8255)
- johCrisis Text Line: Text HELLO to 741-741

ADDITIONAL INFORMATION:

This course meets educator preparation standards for one or more certification programs; a complete listing of all the educator preparation standards this course meets can be found at: https://sfasu.edu/docs/jacksteach/jacksteach-standards-alignment-chart.xlsx
### Organic Chemistry I
**CHE 3331-500**  
Tentative Class Calendar Fall 2023  
Dr. Matibur Zamadar  
*(All the due date times on the timeline are based on Central Standard Time)*

<table>
<thead>
<tr>
<th>Topic</th>
<th>Date</th>
<th>Topics/Content</th>
<th>Readings from book</th>
<th>Activities &amp; Assignments</th>
</tr>
</thead>
</table>
| Getting Started    | Aug 28-Sep 3  | Getting Started              | Syllabus and Chapter 1 | Introduction Discussion  
Due date: Aug 30, 11:30 PM on D2L                            |
| 1                  | Sep 3-Sep 10  | Ch1: Covalent Bonding and Shapes of Molecules | Chapter 1         | Homework on (https://www.wileyplus.com/user-login/)  
Due date: Sep 18 11:30 PM                                    |
| 2                  | Sep 11-Sep 17 | Ch1: Covalent Bonding and Shapes of Molecules & Ch 2: Alkanes and cycloalkanes | Chapter 1 & Chapter 2 | Homework on (https://www.wileyplus.com/user-login/)  
Due date: Sep 18 11:30 PM                                    |

**EXAM I (Ch1 and Ch 2):** Sep 18 from 2:00-10:00pm (CST) via D2L

| 3                  | Sep 18-Sep 24 | Ch3: Stereoisomerism and Chirality | Chapter 3          | Homework on (https://www.wileyplus.com/user-login/)  
Due date: Oct 23, 11:30 PM                                    |
<table>
<thead>
<tr>
<th>Topic</th>
<th>Date</th>
<th>Topics/Content</th>
<th>Readings from book</th>
<th>Activities &amp; Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Sep 25-Oct 1</td>
<td>Ch3: Stereoisomerism and Chirality</td>
<td>Chapter 3</td>
<td>Homework on <a href="https://www.wileyplus.com/user-login/">https://www.wileyplus.com/user-login/</a> Due date: Oct 23, 11:30 PM</td>
</tr>
<tr>
<td>4</td>
<td>Oct 2-Oct 8</td>
<td>Ch4: Acids and Bases</td>
<td>Chapter 4</td>
<td>Homework on <a href="https://www.wileyplus.com/user-login/">https://www.wileyplus.com/user-login/</a> Due date: Oct 23, 11:30 PM</td>
</tr>
<tr>
<td>4 &amp; 5</td>
<td>Oct 9-Oct 15</td>
<td>Ch4: Acids and Bases &amp; Ch5: Alkenes</td>
<td>Chapter 4 &amp; Chapter 5</td>
<td>Homework on <a href="https://www.wileyplus.com/user-login/">https://www.wileyplus.com/user-login/</a> Due date: Oct 23, 11:30 PM</td>
</tr>
<tr>
<td>5</td>
<td>Oct 16-Oct 22</td>
<td>Ch5: Alkenes</td>
<td>Chapter 5</td>
<td>Homework on <a href="https://www.wileyplus.com/user-login/">https://www.wileyplus.com/user-login/</a> Due date: Oct 23, 11:30 PM</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>EXAM II (ch 3, ch 4, ch 5): Oct 23 from 2:00-10:00pm (CST) via D2L</strong></td>
</tr>
<tr>
<td>6</td>
<td>Oct 23-Oct 29</td>
<td>Ch 6: Reactions of Alkenes</td>
<td>Chapter 6</td>
<td>Homework on <a href="https://www.wileyplus.com/user-login/">https://www.wileyplus.com/user-login/</a> Due date: Nov 13, 11:30 PM</td>
</tr>
<tr>
<td>6</td>
<td>Oct 30-Nov 5</td>
<td>Ch 6: Reactions of Alkenes &amp; Ch 7: Alkynes</td>
<td>Chapter 6 &amp; Chapter 7</td>
<td>Homework on <a href="https://www.wileyplus.com/user-login/">https://www.wileyplus.com/user-login/</a> Due date: Nov 13, 11:30 PM</td>
</tr>
<tr>
<td>7</td>
<td>Nov 6-Nov 12</td>
<td>Ch 7: Alkynes</td>
<td>Chapter 7</td>
<td>Homework on <a href="https://www.wileyplus.com/user-login/">https://www.wileyplus.com/user-login/</a> Due date: Nov 13, 11:30 PM</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>------</td>
<td>------------</td>
<td>----------------------------------</td>
<td>-------------------------------</td>
<td>-------------------------------------</td>
</tr>
<tr>
<td><strong>EXAM III (ch 6 and ch 7):</strong></td>
<td>Nov 13 from 2:00-10:00pm (CST) via D2L</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Nov 13-Nov 19</td>
<td>Ch 8: Alkyl Halides</td>
<td>Chapter 8</td>
<td>Homework on <a href="https://www.wileyplus.com/user-login/">https://www.wileyplus.com/user-login/</a> Due date Dec 11, 11:30 PM</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Thanksgiving break (Nov 20-Nov 26)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Nov 27-Dec 3</td>
<td>Ch9: Nucleophilic Substitution and β-Elimination</td>
<td>Chapter 9</td>
<td>Homework on <a href="https://www.wileyplus.com/user-login/">https://www.wileyplus.com/user-login/</a> Due date: Dec 11, 11:30 PM</td>
</tr>
<tr>
<td>9</td>
<td>Dec 4-Dec 10</td>
<td>Ch9: Nucleophilic Substitution and β-Elimination</td>
<td>Chapter 9</td>
<td>Homework on <a href="https://www.wileyplus.com/user-login/">https://www.wileyplus.com/user-login/</a> Due date: Dec 11, 11:30 PM</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>EXAM IV (ch 8 and ch 9):</strong></td>
<td>Dec 11 from 2:00-10:00 (CST) via D2L</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Final</strong></td>
<td></td>
<td>Comprehensive Final will be on Dec 14 from 2:00 pm-6:30 pm on via D2L</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>