Chemistry 326
Syllabus Spring 2021

For in person Q&A and Laboratory <u>Special COVID Precautions</u>

Face Coverings:

- At all UW-Stevens Point campus locations, the wearing of face coverings is mandatory in all buildings, including classrooms, laboratories, studios, and other instructional spaces. Any student with a condition that impacts their use of a face covering should contact the Disability and Assistive Technology Center to discuss accommodations in classes. Please note that unless everyone is wearing a face covering, in-person classes cannot take place. This is university policy and not up to the discretion of individual instructors. Failure to adhere to this requirement could result in formal withdrawal from the course.

Other Guidance:

- Please monitor your own health each day using this screening tool. If you are not feeling well or believe you have been exposed to COVID-19, do not come to class; email your instructor and contact Student Health Service (715-346-4646).
- As with any type of absence, students are expected to communicate their need to be absent and complete the course requirements as outlined in the syllabus.
- Maintain a minimum of 6 feet of physical distance from others whenever possible.
- Do not congregate in groups before or after class; stagger your arrival and departure from the classroom, lab, or meeting room.
- Wash your hands or use appropriate hand sanitizer regularly and avoid touching your face.

Please maintain these same healthy practices outside the classroom 😊

Instructor	Robin S. Tanke, Ph.D.
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Office:	CBB 447
Office Hours: * Working on how best to do this	Please e-mail for private ZOOM appointment Group Q&A Wednesday 12:00 -12:50 – CBB 101 (12 person limit*) -Recorded Group Q&A Thursday 9:00-9:50 – ZOOM Group Q&A Thursday 3:00-3:50 - CBB 101 (12 person limit*) -Recorded

Class Sessions:

Lecture:	On-line	Weekly recordings		
Lab Section 1	T	11:00AM – 2:00 PM	CBB 420/426	Bowling
Lab Section 4	W	8:00 – 11:00 AM	CBB 420/426	Bowling
Lab Section 2	W	2:00 – 5:00 PM	CBB 420/426	Tanke
Lab Section 3	R	11:00AM – 2:00 PM	CBB 420/426	Tanke

The last year has required us to be resilient in the face of uncertainty. Based on issues that arose on campus and in Chem 325, there will be changes made this semester.

One change is that there will be two in person (limited to 12 students) "Class Office Hours" or question and answers sessions a week in CBB 101 on Wednesdays from 12:00 -12:50 PM and Thursday from 3:00 -

3:50 PM. These sessions will be recorded and posted on CANVAS. The 12 students able to attend on a particular day will be notified in advance. Determining factors will be answers to the Survey. This could change during the semester. There will also be one on-line ZOOM office hours from 9:00 - 9:50 AM on Thursdays. This will not be recorded. Finally, you can always e-mail with questions or to set up a private ZOOM appointment.

Another change is exams. There will be 4 hour exams and a final exam. If you cannot take the exam during the scheduled time you may request in advance an alternate exam time. Anyone not taking the exam during the exam time will receive an alternate make up exam. If you miss an exam or have technical problems, call 715-346-4325 or e-mail rtanke@uwsp.edu ASAP. Please use the Chrome browser for taking quizzes.

Exam Schedule: You are expected to take the exams during the exam time.

- Exam 1: Friday, February 19, 2021 from 6:50 – 8:00 AM (unless another time is agreed on.)
- Exam 2: Friday, March 12, 2021 from 6:50 – 8:00 AM (unless another time is agreed on.)
- Exam 3: Friday, April 16, 2021 from 6:50 – 8:00 AM (unless another time is agreed on.)
- Exam 4: Friday, May 7, 2021 from 6:50 – 8:00 AM (unless another time is agreed on.)

Final Exam: Monday, May 17, 2021 10:15 – 12:15 PM

Course Objectives:

☺ Students will propose reasonable mechanisms for chemical reactions based on a fundamental understanding of organic chemistry.
☺ Students will propose syntheses of simple molecules and include the use of protecting groups as necessary.
☺ Students will describe the structure and reactivity of simple bioorganic molecules.
☺ Students will demonstrate the ability to read aspects of organic chemistry in scientific journals.
☺ Students will safely prepare and characterize organic compounds and appropriately document and present their laboratory work.

Prerequisite: A grade of "C-" or better in Chem 325 or equivalent

Required Materials:

- The text, available at text rental, is Organic Chemistry, Fifth Edition by Janice Smith
- Dr. Bowling is coordinating the laboratory portion of the course. You will need safety goggles, a face covering, a notebook and Labflow for the Lab. Please check the Chem 326 Lab Canvas Site for additional Lab Information.

Recommended Materials:

- Molecular Models Model kits are available are from Indigo (www.indigo.com) for about $35.00. The bookstore also has model kits available for you to purchase.
- Study Guide and Solutions Manual for Organic Chemistry, Fifth Edition by Smith and Smith This manual gives answers to all the problems in your text. Copies of pages to specific chapters will be available on Canvas for a few weeks at a time.

Grading: The tentative letter grades will be given as follows: 'A' – greater than 93%, 'B' – greater than 83% 'C' - greater than 73% , and 'D' – greater than 63%.

Evaluation Opportunities

Chem 325 Review	30 pts
4 Exams (70 points each)	280 pts
9 Homework Assignments (15 points each)	130 pts
Written Library Assignment[1]	50 pts
Final Exam	140 pts
Laboratory Grade[2]	¼ of your total grade

Notes

1. **Details of this assignment will be given later in the semester.**
2. **The Laboratory Grade will be ¼ of the total grade for the class. Dr. Bowling is coordinating the laboratory program.**

LATE WORK POLICY: I expect work to be turned in at the designated time; however, if work must be late, you will receive a 10% grade reduction for material 1 hour to 1 week late. Any work turned in more than 1 week late will not be accepted except under special circumstances.

☺ Success in this course requires keeping up with the videos, readings, assigned problems, and class activities through out the semester. ☺

Student Conduct:

You are required to take exams at the assigned time. Failure to take exams during the set time or prearranged time is unacceptable. Excused absences will be granted under certain conditions; contact me as soon as possible if you need to miss an exam or lab.

Students are reminded that they are to conduct themselves in accordance with the rules for academic conduct. Academic misconduct is described in Chapter UWSP 14 is to be followed by all students, staff, and faculty. An excerpt from this follows:

UWSP 14.03 ACADEMIC MISCONDUCT SUBJECT TO DISCIPLINARY ACTION. Academic misconduct is an act in which a student:

1. Seeks to claim credit for the work or efforts of another without authorization or citation;
2. Uses unauthorized materials or fabricated data in any academic exercise;
3. Forges or falsifies academic documents or records;
4. Intentionally impedes or damages the academic work of others;
5. Engages in conduct aimed at making false representation of a student's academic performance; or
6. Assists other students in any of these acts.

Disabilities: If you have disabilities and need any special accommodations, you should contact the office of Disability Services during the first two weeks of the semester.

Accommodations for Religious Beliefs: Religious beliefs will be accommodated according to UWS 22.03 provided I am notified during the first three weeks of classes.

Chemistry 326 Tentative Schedule 2021

Dates Week #	**Topic**	**Assignment**
1/25-1/29 1	Class introduction Unit 1: Reduction and Oxidation (Chapter 12)	Review Chem325 due NOON 1/29
2/1 -2/5 2	Unit 2: Spectroscopy Review (Chapters 13, 14) and Carboxylic Acids (Chapter 19)	Homework 1 due NOON 2/5
2/8-2/12 3	Unit 3: Introduction to Carbonyl Chemistry (Chapter 20)	Homework 2 due NOON 2/12
2/15-2/19 4	Comments on Homework 1 and 2, Unit 4: More Reactions of Aldehydes and Ketones (Chapter 21)	**Exam 1 Units 1-3** **Friday, 2/19**
2/22-2/26 5	Continued Unit 4: More Reactions of Aldehydes and Ketones (Chapter 21)	Homework 3 due NOON 2/26
3/1-3/5 6	Unit 5: Sugars (Chapter 28) Unit 6: Carboxylic Acid Derivatives	Homework 4 due NOON 3/5
3/8-3/12 7	Unit 6: Carboxylic Acid Derivatives Homework 3 and 4 comments	**Exam 2: Units 4-6** **Friday, 3/12**
3/15-3/19 8	Literature Assignment Instructions, Unit 7: Fats and Proteins (Parts of Chapters 22 and 29)	Homework 5 due NOON 3/26
3/22 -3/26	**SPRING BREAK!**	
3/29-4/2 9	Unit 8: Reactions of Enols and Enolates (Chapter 23)	Homework 6 due NOON 4/2
4/5-4/9 10	Unit 9: More Reactions of Enols and Enolates (Chapter 24)	Homework 7 due NOON 4/9
4/12-4/16 11	Unit 9 Continued, Homework 5, 6, and 7 comments	**Exam 3 Units 7-9** **Friday 4/16**
4/19-4/23 12	Unit 10: Conjugated Systems (Chapter 16)	Homework 8 due NOON 4/23
4/26-4/30 13	Unit 11: Aromatic Compounds (Chapters 17 and 18)	Homework 9 due NOON 5/7
5/3-5/7 14	Unit 12: Synthetic polymers (Chapter 30), Homework 8 and 9 comments	**Exam 4: Units 10-12** **Friday 5/7**
5/10-5/14 15	Review	Literature assignment due NOON, Monday 5/10
5/17	**Final Exam** Monday May 17, 2020 10:15 AM – 12:15 PM	

Robin Tanke Spring 2021

	Monday	Tuesday	Wednesday	Thursday	Friday
08:00					Safer at Home Day
09:00	Chem 298 CBB 105		Research	Virtual Q&A On ZOOM	Class preparations
10:00					And Grading
11:00		Research		326 Lab 02L2 420/426	
12:00			Chem 326 Q&A CBB 101	326 Lab 02L2 420/426	
13:00				326 Lab 02L2 420/426	
14:00	105 Lab 01L1 CBB 226	105 Lab 01L2 CBB 226	326 Lab 02L3 CBB 420/426		Department Meeting
15:00	105 Lab 01L1 226	105 Lab 01L2 226	326 Lab 02L2 420/426	Chem 326 Q&A CBB 101	Department Meeting
16:00	105 Lab 01L1 226	105 Lab 01L2 226	326 Lab 02L2 420/426		