

Fall 2015

CHEM 3218

Branko S. Jursic
University of New Orleans

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Course Syllabus Organic Chemistry - CHEM 3218 -Sections 001-004

Instructor: Dr. Branko S. Jursic, Professor of Chemistry

Semester: Fall 2015 Credit Hours: 3

Class Time: Lecture TuTh 11:00 -12:15 Biological Sciences Bldg101

Recitation Time:

Section 001, Tu 12:30-1:20 PM, SC2052 (Terry Shields)

Section 002, W 1:00–1:50 PM, SC2120 (Noelle Johnson).

Section 003, Th 10:00 -10:50 PM, SC1053.

Section 004, Tu 12:30-1:20 PM, SC1053. (Terry Shields)

Office: UNO CSB 323 Office Phone: 280-7090 (or email at bjursic1@uno.edu).

Office Hours: TuTh, 10-11 and MWF 11-12 and by appointment.

Prerequisite: Completion of Organic Chemistry I (CHEM 2217)

Required Course Materials:

Solomons, G.; Fryhle, C.; Snyder, S. "Organic Chemistry" 11th Ed., Wiley, New York, 2014 (ISBN 978-1-118-14739-9)

Optional Course Materials:

Klein, D. "Organic Chemistry as a Second Language, 3rd Ed., Wiley, New York, 2012 (ISBN 987-1-118-01040-2)

Course Description:

This is the second semester of Organic Chemistry. This course completes most chemistry requirements for pre-professional degree programs. This course will cover the reactions, mechanisms and properties of various functional groups including dienes, arenes, carbonyls, carboxylic acid and their derivatives, phenols, amines as well as biochemical such as carbohydrates, lipids, amino acids and proteins.

Study Methods:

There will be quizzes given almost every day in lecture. These quizzes will be counted together with attendance. Additionally, a standing homework assignment will be to read the chapters before coming to lecture. By reading the chapter you will be better prepared to ask questions on the material and will be better able to understand the material being lectured.

EXAMINATION RULES: You must bring your UNO identity card to each exam. You may not leave early nor late from the exam room. No notes, books, calculators, phones or personal electronic devices of any kind are permitted. If required, a periodic table will be provided. Academic dishonesty will not be tolerated. "Regrades" must be submitted within 10 days of the exam date, or within 10 days of the date that homework is returned. Under these conditions, the entire exam will be scrutinized and, as appropriate, either a lower or a higher grade given. To be eligible for a "regrade" the exam or homework must be written in black or blue ink. Exams written in red ink or pencil will not be eligible for regrading. Finally, note that no complaints regarding final grades will be entertained. What you get is... well, what you get!

Grading and Classroom Procedures:

There will be no make-up tests except under extreme circumstances. Any makeup test must be arranged at least **48 hours** before the test date except for extreme circumstances. You must take the test with your section. You cannot take it with the other section without prior approval. Late homework will result in a lowering of grade. You are on your honor to do your own work. Cheating will result in a zero or failure for the term. There will be four tests and a final exam. The four exams will be worth a total of 600 points (150 point each). The final exam is cumulative and worth 200 points. There will be 12 homework assignments (each for one chapter) worth total of 120 points. Attendance will be taken each and every class time and it will contribute 80 points

GRADE SCALE

901-1000 (A)
801-900 (B)
701-800 (C)
601-700 (D)

Accommodations for Students with Disabilities:

It is University policy to provide, on a flexible and individualized basis, reasonable accommodations to students who have disabilities that may affect their ability to participate in course activities or to meet course requirements. Students with disabilities should contact the Office of Disability Services as well as their instructors to discuss their individual needs for accommodations. For more information, please go to <http://www.ods.uno.edu>.

Cell Phone Utilization Policy:

Cell Phone usage is prohibited in class. Cell phones must be silenced upon entering the classroom. Cell phones may not be used as calculators or for note taking. Any type of cell phone utilization can be cause for dismissal from class. Any exceptions to this regulation must be cleared with the instructor prior to the beginning of class.

Academic Integrity:

Academic integrity is fundamental to the process of learning and evaluating academic performance. Academic dishonesty will not be tolerated. Academic dishonesty includes, but is not limited to, the following: cheating, plagiarism, tampering with academic records and examinations, falsifying identity, and being an accessory to acts of academic dishonesty. Refer to the Student Code of Conduct for further information. The Code is available online at <http://www.studentaffairs.uno.edu>.

Student Learning Outcomes:

After successful completion of this course, Students should: Have a general understanding of nomenclature, various chemical reactions, mechanisms of chemical transformations, synthesis of organic functional groups, and general knowledge of three major groups of natural product such as amino acids, lipids, and saccharides.

Attendance Policy:

Attendance is mandatory and will be taken daily in this course. An excessive number of absences will be reported to the Provost's Office and may result in termination of federal financial aid as well as negatively effect the student's grade. **Any student with excessive absences will forfeit all bonus points and may not be eligible to benefit from any curve for the class.**

Schedule of Lectures and Tests

Introduction plus discussion of class Syllabus: August 20.
Chapter 13. Conjugated Unsaturated Systems: August 25 and 27
Chapter 14. Aromatic Compounds: September 1 and 3
Chapter 15. Reactions of Aromatic Compounds: September 8 and 10
Test#1 (Chapters 13-15): September 15
Chapter 16. Aldehydes and Ketones. Nucleophilic Addition to the Carbonyl Group: September 17 and 22
Chapter 17. Carboxylic Acids and Their Derivatives: September 24 and 29
Chapter 18. Reactions at the alpha Carbon of Carbonyl Compounds: October 1 and 6.
Test#2 (Chapter 16-18): October 8
Chapter 19. Condensation and Conjugated Addition Reactions of Carbonyl Compounds. October 13 and 20.
Chapter 20. Amines: October 22 and 29.
Chapter 21. Phenols and Aryl Halides: November 3 and 5.
Test#3 (Chapters 19-21): November 10.
Chapter 22. Carbohydrates: November 17
Chapter 23. Lipids: November 19.
Chapter 24. Amino Acids and Proteins: November 24.
Test#4 (Chapters 22-24): December 3.

FINAL EXAM (comprehensive): Tuesday, December 8, 10:00 AM - NOON.

Homework Schedule

| Homework | Chapter | Due Date (Class Time) |
|----------|---------|-----------------------|
| 1 | 13 | September 1 |
| 2 | 14 | September 8 |
| 3 | 15 | September 15 |
| 4 | 16 | September 24 |
| 5 | 17 | October 1 |
| 6 | 18 | October 8 |
| 7 | 19 | October 22 |
| 8 | 20 | November 3 |
| 9 | 21 | November 10 |
| 10 | 22 | November 19 |
| 11 | 23 | November 24 |
| 12 | 24 | December 3 |