Chemistry 3720
Introduction to Organic Chemistry 2

Monday, Wednesday, Friday 11 am, Cushwa B112

Professor: Dr. Peter Norris

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Textbook: "Organic Chemistry" (2nd edition) by David Klein, Wiley publishers. The 1st edition of the text is also acceptable and the study guide is recommended, as is the downloadable ChemDraw suite.

Course Objectives: The focus of this course will be to help the student understand the underlying principles of Organic Chemistry. The student will be able to appreciate the relationship between the structure of an organic compound or intermediate, and its physical, chemical, and/or spectroscopic properties. Material presented in this course provides the necessary foundation for advanced studies in Organic Chemistry, including the basic mechanisms of organic reactions, organic synthesis, and bioorganic chemistry. The course also provides a basis for other closely related fields that involve organic molecules such as Biochemistry and Polymer Chemistry. In the second semester we will cover Chapters 13 through 27 of the textbook, in that order.

General: Organic Chemistry is the study of the compounds formed by ***carbon***, of which many millions have been identified so far. Organic compounds and their chemistry form the basis of Biochemistry and Genetics, and organics are the backbone of the pharmaceutical and petroleum industries. If you intend to study chemistry, biology, pharmacy, medicine, forensics, chemical or biomedical engineering, or any other chemical-based subject, understanding the fundamentals of Organic Chemistry is essential. The material is also relevant to tests used for entry to professional schools in the United States (e.g. PCAT, DAT, MCAT, GRE, etc.).

In two semesters we can only hope to cover the basics; however this still amounts to a very large amount of material. Everything that was covered in Chemistry 3719 is now relevant in Chemistry 3720, and you will be expected to remember it all. It is very easy to get swamped in this class by not studying from the beginning in a consistent manner. Since we will not have time in class to cover every detail contained within the text, it is essential that you get into the habit of reading ahead, studying your notes and the text at night, and then working as many problems as possible to see if you understand the material. You will need to spend at least one hour a day, outside of class, on Organic Chemistry if you want to do well.

The lecture and laboratory portions of the Organic Chemistry sequence coincide as much as possible since everything discussed in lecture is the result of past experimental work. You will certainly find yourself using the lecture text to work out problems from the lab, and hopefully this will help you realize that the lab and lecture are closely interconnected and that this is a subject based on experiment.

If you feel you might struggle with Organic Chemistry, and especially if you did not get high grades in General Chemistry and Chemistry 3719, you are advised to sign up for the recitation class, Chemistry 3720R, in which the professor will answer questions and work problems related to the lecture material. SI sessions will be held regularly and tutoring help is also available at the Center for Student Progress in the Kilcawley Student Center.

Assessment: There will be three 50 minute term exams (dates listed below) worth 100 points each and a 200 point comprehensive final. The lab component, Chemistry 3720L, is worth 100 points, and you will also be able to earn 100 points by completing the homework assignments through WileyPlus, for a total of 700 points for Chemistry 3720/3720L. Note: you must receive **at least 70%** in lab in order to pass Chemistry 3720 overall. The approximate grading scale below will be used ***with adjustments made as needed depending upon overall class performance and relative difficulty of exams*:**

Exam Schedule:	Exam 1 : **Friday February 2nd** (100 points)	Exam 2: **Friday March 2nd** (100 points)
	Exam 3 : **Friday April 6th** (100 points)	Final: **Monday, April 30th** (200 points)
Grading:	**A** 700 to 630 points **B** 629 to 560 points **C** 559 to 420 points **D** 419 to 350 points **F** less than 350 points	

Honors Credit: Available in both Chemistry 3719 and 3720, Honors projects typically involve the use of the ChemDraw software with which interested students tackle course material in more depth. Tasks are set early in the semester then students work at their own pace over the course of the term and submit a final report for assessment. Successful completion of an acceptable report will then be forwarded for credit.

Request for "Incomplete": A request for a grade of "Incomplete" (I) in the course will be considered only if more than 60% of the assignments have been completed as scheduled. An "I" will be submitted only when the cause is deemed justifiable and approved by both the instructor and the department chairperson (see YSU *Bulletin*). All incomplete work must be completed by August 1, 2018 otherwise the grade will become an F.

Students with Disabilities: In accordance with University procedures, if you have a documented disability and require accommodations to obtain equal access in this course, please contact me privately to discuss your specific needs. You must be registered with CSP/Disability Services and provide a letter of accommodation to verify your eligibility. You can reach CSP/Disability Services at (330) 941-1372.

Statement of Non-Discrimination: Youngstown State University does not discriminate on the basis of race, color, national origin, sex, sexual orientation, gender identity and/or expression, disability, age, religion or veteran/military status in its programs or activities. Please visit www.ysu.edu/ada-accessibility for contact information for persons designated to handle questions about this policy.

Academic Misconduct: You are referred to the YSU Student Code of Conduct (found on the YSU website) for an account of the typical consequences associated with any academic misconduct. Any attempts at cheating in Chemistry 3720/3720L/3720R will be dealt with severely. If you are caught cheating, for example for copying a lab report, for looking at someone else's paper during an exam, for having someone else complete your online homework, or for using an electronic device during an exam or quiz, ***you will at least be given an F grade for the 3720/3720L course***. During exams there will be several assistants present to help monitor proceedings. Also, please bring with you a means of photographic identification; this will be checked at the end of the exam. Since the professor grades all of the exam papers any examples of copying will be discovered and dealt with; random pages of completed tests will be photocopied.
Do not jeopardize your future by cheating.