

Chemistry 3720

Introduction to Organic Chemistry 2

MWF 11.00-11.50 Cushwa B031

Dr. Peter Norris

Office: 6014 Ward Beecher Hall

Office Hours: MTWTh 12.00-1.00 or by appointment

Telephone: (330) 941-1553

Email: pnorris@ysu.edu or dr.peter.norris@gmail.com

Websites: <http://class.yzu.edu/~pnorris> or <http://www.hyperconjugation.com>

Textbook: "Organic Chemistry" 8th Ed. by Francis A. Carey and Robert M. Giuliani, McGraw Hill publishers (the 7th and 6th editions are also suitable for Chemistry 3719 and 3720). The accompanying study guide is highly recommended; you should also download the ChemBioDraw software.

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, bioorganic chemistry, and the subject leads into other related fields that involve organic molecules.

General: Organic Chemistry is the study of the compounds formed by *carbon*, of which many millions have been identified so far. The subject forms the basis of biochemistry and genetics, and is the backbone of the pharmaceutical and petroleum industries. If you intend to study chemistry, biology, pharmacy, medicine, engineering, or any other chemically-based subject, a sound understanding of the fundamentals of Organic Chemistry is essential. The material is also relevant to the various standardized 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 3719 is relevant in 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 studying your notes and the text at night, and then working as many problems and web-based exercises as possible to see if you understand the material.

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 see that lab and lecture are closely interconnected. Doing well in lab will boost your overall grade in Chemistry 3720.

If you feel you might struggle with Organic Chemistry, or if you just want to see more of it, you are advised to sign up for the recitation class, Chemistry 3720R, in which the instructor will answer questions and work many problems related to the lecture material. Supplemental Instruction help is also available this semester at the Center for Student Progress in the Kilcawley Student Center.

Spring 2012

Assessment: There will be three 50 minute term exams (see the schedule below for dates) worth 100 points each and a 200 point comprehensive final. The lab component, Chemistry 3720L, is worth 100 points, for a total of 600 points for Chemistry 3720/3720L. You must receive **at least 60/100** 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: Fri 2/3/12 (100 pts)	Exam 2: Fri 3/12/12 (100 pts)
	Exam 3: Fri 4/20/12 (100 pts)	Final: Mon 5/7/12 (200 pts)
Grading:	A 600-540 pts	B 539-480 pts
	D 359-300 pts	C 479-360 pts
		F <300 pts

Online Resources: The Norris website (<http://class.yzu.edu/~pnorris> or <http://www.hyperconjugation.com>) contains a wealth of information related to Chemistry 3719 and 3720 including copies of syllabi, old exams, class notes, and links to useful websites (e.g. the class YouTube channel) for Organic Chemistry students. A link to the ChemBioOffice software suite, which is strongly suggested for Chemistry 3719 and 3720, is provided on the Teaching page. Also, a link to practice problems available through the McGraw-Hill website is provided, as well as a link to an Android/iPhone app for Chemistry 3720-based quiz questions for further practice.

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

Request for "Incomplete": A request for a grade of "Incomplete" (I) in the course will be considered only when 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 September 1, 2012 otherwise the grade will be recorded as an F.

Disability Services: 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. CSP/Disability Services: 330-941-1372; <http://www.yzu.edu/csp/disabilityservices>

Academic Misconduct: You are referred to the YSU Student Code of Conduct (found on the YSU website at: <http://www.yzu.edu/thecode.pdf>) for an account of the typical consequences associated with any academic misconduct. Any attempts at cheating in Chemistry 3720/3720R/3720L 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, or for using a cellular phone 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 and quizzes 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.**