Syllabus for Chemistry 3045x Fall 2001

Intensive Organic Chemistry for Freshmen

Instructor: Professor Nicholas J. Turro

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Course Home Page on the Internet:
http://www.columbia.edu/itc/chemistry/chem-c3045/

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Class and Recitation Section

In addition to the regularly scheduled classes, a required recitation section will meet once a week. The recitation sections will be used for (1) taking announced quizzes on class material; (2) exploring materials relevant to the course by the use of computer programs and the Internet; (3) reviewing materials discussed in class or home work assigned in the text; and (4) discussing course material before examinations.

Class times: 10-10:50 AM, Mon., Wed., Fri. (209 Havemeyer)
Recitation section: (Attendance required) Section 1: 2:10-3:00 PM Wed. or Section 2: 3:10-4:00 PM (209 Havemeyer or 310 Havemeyer). Assignment to sections to be made the first day of class.

Course Materials

Textbooks


(3) Recommended: Several other organic texts are on reserve in the Chemistry Library, 454 Chandler.
Molecular Models

(1) **Required:** A computer program called Spartan for drawing models of organic molecules and more is bundled on a CD with the text book.

(2) **Recommended:** Ball and stick molecular models (Any set will do. Sets are available at the Book Store).

**Course Administration**

**Exams:** Three one-hour exams and a three hour final. The hour exams will be given on Monday, October 1; Wednesday, November 7; Monday, December 3. The date of the final is determined by the registrar. All exams will be given in room 209 Havemeyer. Examples of exams from previous years along with answers will be posted on the course home page.

**Grades:** An absolute grading system will be applied. This means that the class grades will not be curved and thus it is possible for any student to earn an A in this course. The lowest grade on an hour exam (or 1/3 of the final if that is lowest) is dropped in computation of the final grade. If an exam is missed for any reason, that exam is dropped instead of the lowest hour examination. Improvement during the course, participation in class and recitation discussions and timely completion of assigned homework will also be considered in the determination of the final grade.

**Homework:** Homework from the text will be assigned and discussed in recitation sections, or by appointment with the Instructor or a Teaching Assistant. All homework assignments must be handed in on the date due at the end of class.

**Appointments:** Student are encouraged to discuss any aspects of the course or any academic issues at any time with the Instructor or a Teaching Assistant. Appointments may be made by phone or email. *Email is recommended.*
Internet Home Page for the Course

The URL for the course Home Page on the Internet is:
http://www.columbia.edu/itc/chemistry/chem-c3045/

If you do not remember the URL go to the Columbia Home Page, select the Courses button on the left, which brings you to the Courses Home page. Near the bottom of this page select "Courses" which will bring up a list of course home pages. Find Chemistry and select C3045. Click on the hot link and this will bring you to our course Home Page.

You may visit the Home Page through a number of routes, but it is most convenient if you make a bookmark on your computer after your first visit.
The Internet and Other Information Technology Activities.

Internet. The course will employ the Internet and Information Technologies (e.g., computers) in a variety of ways. Netscape or Internet Explorer can be used as Internet Browsers.

Student Home Page and Newsgroup. Students will be encouraged to set up their own Home Pages for the course and a Newsgroup or email chat group will be set up to allow discussions of any material relevant to the course on the Internet. Extensive use of email will be employed during the course.

Computer Classrooms and Access to Computers. Room 310 Havemeyer contains a number of Mac computers which will be used occasionally during recitation sections to explore computer modules, allowing visualization of molecules and chemical principles. These modules will also be viewed from time to time during the classroom lectures. These computers will be available to any member of the class from 9-5 every weekday. Students are encouraged to configure their personal computers to accept as much of the information technology materials as possible within the capability of their PCs.

The Course Home Page

Students are expected to visit the course Home Page regularly. The Home Page provides the class with timely information and announcements on the course in addition to providing Internet access to many useful supplementary materials for the course. When you open the Course Home Page, you will see several Icons (explained below) on the left sidebar which are hot links to materials relevant to the course. It is expected that more material will be added to the Home Page as the course proceeds. Please bring any problems in viewing materials on the course home page immediately to the attention of the Instructor or the Teaching Assistant.

Syllabus: Clicking on this Icon takes you to the course syllabus.

The New Announcements Icon: Clicking on this Icon will take you to current information about the course such as assignments for homework, information on exams, extra point questions, etc.

The Slides and Links Icon: Clicking on this Icon brings you to an "electronic version" of Professor Carey’s textbook. This electronic textbook includes a slide show of all of the chapters in the text and hot links to enrichment and supplementary material on the web from all over the nation and the world. For example, clicking on the Slides and Links Icon takes you to an index of the chapters and subsections of the course text with hot links to the slide show and to web sites all over the world which contain exciting materials pertinent to the materials in the Chapters of the course text. Certain plugins (all free and available on the Internet) to Netscape are required to take full advantage of the Course Home Page links. To obtain these plugins for your personal computer go to the Computer Configuration Icon.
The Computer Configuration Icon: Clicking on the Computer Configuration Icon brings you to a page which provides links and instructions on how to obtain Netscape plugins that are required for viewing certain class materials (text slide show, molecular models, interactive software, movies, etc.) on the web.

The Supplementary Material Icon: Clicking on the Supplementary Materials Icon brings you to a page which contains hot links to chemistry web sites all over the world. The links are organized in the same manner as the Chapters in the text and are the same links as those to which you are brought by the Course Text Icon. In addition, this page contains an appendix with a Periodic Table, and MUCH MORE. This page will be expanded as the class proceeds and it is hoped that the students will participate in finding material on the web or by creating their own materials.

The Questions of the Week Icon: Clicking on this Icon will be used occasionally in the course for extra credit questions.

Discussion Board: Clicking on this Icon connects you with a News Group that discusses topics associated with course material and which supplements email correspondence.

Frequently Asked Questions (FAQs): Clicking on this Icon brings you to information on the course and FAQs (frequently asked questions) about the course, chemistry and Columbia.

Professor Turro's Home Page: Clicking on this Icons connects you to the Chemistry Department Home Page. You can find Professor Turro's research home page and find out what he does when he not lecturing in the Orgo class.