I. TIME & PLACE:  Mon Wed @ 8:30-9:50 a.m. in Science Hall (SH 315).

II. INSTRUCTOR:  Dr. Christopher J. O’Brien
   A. Office:  CRB 203
   B. Telephone:  (817) 272-0262
   C. E-mail:  cjobrien@uta.edu
   D. Office Hours: Students are welcome to consult me informally without appointment during the hours of 2:00-3:30 p.m. on Tuesdays and Thursdays. Please bring worked examples so I can see where you are having problems I will not re-lecture/teach. Other times can be scheduled by appointment (please call or e-mail).
   E. Important Dates:  January 19, Martin Luther King Jr. Day.
   February 4, Census Day.
   April 3, Last day to drop a class.
   May 8, Last day of class.
   Final Exam TBA

A. COURSE DESCRIPTION:
   CHEM-5310 Advanced Organic Chemistry-II. The Second part of a comprehensive survey of the chemistry of carbon compounds: their structure, properties, bonding, stereochemistry, reactions, and reaction mechanisms.

B. POSITION OF THE COURSE IN THE COLLEGE CURRICULUM:
   CHEM-5310 is intended for graduate students who have completed CHEM-5309

C. REQUIRED MATERIALS
   A. Organic Chemistry, Clayden, Greeves, Warren and Wothers
   B. Advanced Organic Chemistry 5th edition A and B, Carey and Sundberg

D. TOPICS TO BE COVERED
   A. Electrophilic Addition and Elimination Reactions
   B. Carbanions and Carbonyl Chemistry
      TEST 1
   C. Free Radicals, Carbenes and Nitrenes
      TEST 2
   D. Aromaticity and Aromatic Substitution and Heterocyclic Chemistry
   E. Synthetically Useful Transition Metal Catalyzed Processes
      FINAL EXAM (TBA)
E. Grading

There will be graded (and ungraded) problems assigned both from the book and from handout sheets. You are strongly encouraged to work out all of the problems assigned since proficiency in solving mechanistic problems is gained from working out problems. This will constitute 15% of your grade.

The two tests will count approximately 25% each and the final exam will count approximately 35%. The dates for the tests will be announced one week in advance, and will be guided by the material.
And Now, a Word About Academic Honesty:

First of all, let us remind ourselves that the real purpose of this course is to help you acquire problem-solving skills, and a detailed knowledge of organic chemistry. Presumably, you would also like to acquire good scores in quizzes, examinations and laboratory exercises. However, please remember that grades are not the goal; grades are merely evidence of your progress toward the goal. Your grades cannot be a valid measure of your learning unless the papers you submit represent your own work.

All students are expected to pursue their scholastic careers with honesty and integrity. Academic dishonesty will not be tolerated by the Department of Chemistry and Biochemistry. Academic dishonesty includes (but is not limited to) cheating, falsification of date, plagiarism, and contracting/collusion with others to take your tests or do your work. Cheating is the use or acquisition of information (data, constants, formulas, textual material, etc.) from either unauthorized sources or in an unauthorized manner. Examples include but are not limited to:

- exchanging information during a test or quiz
- looking at another student’s paper during a test or quiz
- bringing information in any form into a test or quiz other than personal knowledge. This includes written notes (crib sheets) and digitally stored information (formulas, constants, textual, etc.) on calculators, cell phones, pagers etc.
- looking at a book or other unauthorized source during the test or quiz.
- accessing information by any electronic means (cellular phone, pagers, personal stereos, etc.)
- processing data or information in an unauthorized manner using a programmable calculator or computer. In other words, unless you have received authorization, you are not to use any computer program. This includes specialty computers or calculators in which the programming is “built in” to the computer. You are permitted to use simple calculators which perform arithmetical, logarithmic, and trigonometric functions.

In the event that a test proctor or instructor determines that a student is cheating, the following actions will be taken:

- the student will be notified and, if the situation merits, asked to explain their actions
- the source of the unauthorized information will be removed during the remainder of the test period and returned to the student following the test, if appropriate.
- the student may be removed to a different location to complete the test.
- calculator/computer memory will be cleared of the stored information and programs as appropriate. In some cases the proctor will need to temporarily examine the calculator to verify unauthorized use. The calculator will be returned to the student to finish the test.
- a record of the events and actions surrounding the alleged act of cheating will be submitted to the Associate Vice Provost for Student Affairs for further action. See Undergraduate Catalog for further information.

The following statement is a summary of University policy on cheating—“Students who violate University ruled on scholastic dishonesty are subject to disciplinary penalties, including the possibility of failure in the course.
and dismissal from the University. Since dishonesty harms the individual, all students and the integrity of the University, policies on scholastic dishonesty will be strictly enforced."

**Bomb Threat Policy**

In the event of a bomb threat to a particular facility, the University Police will evaluate the threat. If required, the exams may be moved to an alternate location, but they will not be postponed. UT-Arlington will prosecute phoning in bomb threats to the fullest extent of the Law.

**Grade Replacement**

Students enrolling in a course with the intention of replacing a previous grade earned in the same course must declare their intention to do so at the Registrar’s Office by CENSUS DATE of the semester in which they are enrolled. Please consult the Undergraduate Catalog for the university policy regarding grade replacement.

**Pass/Fail**

If P or F is a grade option in this class and you intend to take this class for a pass/fail grade instead of a letter grade, you MUST inform the instructor, through the necessary paperwork, of your intentions BEFORE the census date.

**Drop for NON-PAYMENT of Tuition:**

If you are dropped from this class for non-payment of tuition, you may secure an Enrollment Loan through the Bursar’s Office. You may not continue to attend class until your Enrollment Loan has been applied to outstanding tuition fees.
Americans with Disabilities Act

In an effort to be certain that students with documented disabilities are reasonably accommodated, I would like to ask your cooperation in informing me of any legitimate needs you may have in this course. Your need for this request will be verified through the appropriate University office to be certain the best accommodation is provided for your particular disability as it relates to this course. It is important for you to understand that this document will be held in the strictest confidence and will not be kept with any of your permanent student records.

Name:                  SS#:
Course:                Section:
Disability:            
Suggested Accommodation:

Also, if you do not require an accommodation but would be agreeable to having your class notes duplicated or assist in another manner with a disabled peer, please indicate below.

Name:                  SS#:
Note Sharing:          Other Assistance: