

## CHE6503 - Topics in Organic Chemistry

*Syllabus (tentative), Fall, 2003*

Credit: 3 semester hours  
Instructor: Edward J. Valente, Ph.D.  
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Office Hours: M-F 7-10:30am; M, Th 1:30-4:30pm.  
Text: Organic Chemistry, William H. Brown, Saunders College Publ. 1997  
Location: MCC (Math Computer Science Chemistry) 402  
Time: Monday, 6:00pm - 8:45pm  
Prerequisite: Admission to the Graduate Program

**Disclaimer:** Although it is expected that the course will be conducted according to the following, these statements are tentative and modifications may be necessary. Information on changes will be communicated to students in advance.

**Course description:** This course includes a study of the fundamental types of organic compounds, their structure, nomenclature, classification, synthesis, typical reactions, and reaction mechanisms. Principles and examples relating to biochemical concepts will be emphasized.

**Rationale for the Course:** The study of organic chemistry will ensure a foundation in the structure and properties of the chemistry of carbon compounds and their importance in medicinal chemistry, biochemistry, medicine, environmental chemistry and consumer chemistry.

**Student Objectives and Outcomes:** The objectives of the course is to provide the student with the necessary knowledge and experience to be able to :

1. recognize the various functions groups or compound types in organic chemistry
2. organize organic structures by reference to organic nomenclature
3. predict the chemical and physical properties of the compounds from its structure and formula
4. identify compounds important to living systems
5. identify and apply the typical and characteristic reactions of organic functional groups
6. identify organic compounds of importance in environmental topics
7. identify and defend the likely organic reaction mechanisms

**Academic Integrity:** Mississippi college students are expected to be completely honest in all aspects of the course. Dishonesty, such as cheating or plagiarism, will be regarded as serious offenses and will be dealt with according to the stated policies of the university. See p. 53 2002-2003 *Mississippi College Undergraduate Catalog*, the *Tomahawk*, and refer to Policy 2.19.