**Course Description:** Organic chemistry second session; A continuation of CHEM 2311. (CHEM 2311: An introductory course, including a study of nomenclature, fundamental types of the compounds, stereochemistry, classification, synthesis and typical reactions of alkanes, alkenes, halides, alcohols, alkynes and some unsaturated/conjugated systems). This second semester course will cover aromatic compounds and reactions, enols and enolates, amines, phenols along with biologically active chemicals. Spectroscopy, including IR, UV, NMR and mass spectra is also covered in concert with the laboratory CHEM 2112. Students not enrolled in the laboratory (ordinarily a co-requisite) should make plans to attend those laboratory sessions that cover spectroscopy.

**Method of Instructions and Outline of the topics.**

The course will be taught applying lecture/discussion methods supported by the notes, video and CD-roms. Assigned problems and the discussion of these are used as case-studies illustrative of the principles.

The chemistry of carbon compounds forms the basis of the chemistry of living systems. It is also the most comprehensive area of non-metallic chemistry that has to follows the foundation courses in basic chemical principles of atomic theory, bonding, compound types, equilibrium, and reaction kinetics. It is a specialized course to understand the chemistry of living systems.

**Prerequisites:**

Chemistry 2311 and 2111. Students who withdraw from Chem. 2312 lecture during the semester must also withdraw from this laboratory course.

**Academic Honesty:**

Academic honesty is an absolute requirement in this course. Please read your student handbook on the “Code of Academic Integrity.” All forms of academic dishonesty which include, but are not limited to cheating, counterfeit work, changing answers on grade sheets, unauthorized reuse of class work, theft, unauthorized collusion, and acts facilitating academic dishonesty will be reported to the academic advising center. Academic dishonesty is very serious, and if proven guilty, may result in suspension and will most likely prevent you from entering a professional program. Although study groups and collaborations are encouraged for learning and working out assigned problems, each student is expected to prepare his/her own homeworks, even though you work in pairs. If you are aware of academic dishonesty on the part of any student, it is your moral duty and responsibility to bring this matter to the attention of your instructor.

**Students with Disabilities:**

The University of the Incarnate Word provides support for students with disabilities. Any student who anticipates the need for assistance, support services, or reasonable accomplishments related to a disability should contact Ms. Valerie Hooge (Ext 5813), Coordinator of Student Disability Support Services (105 AD), and Academic Advising.