Natural Products Chemistry

- Natural products chemistry embraces many of the concepts and techniques as well as most of the fundamental knowledge that is common with medicinal chemistry. The distinguishing feature is that this area involves the study of natural products from plants, animals and microbes. The products may be therapeutically useful or toxic.
- Natural products chemistry endeavors to examine the natural source, mechanisms whereby the source biosynthetically constructs the product, processes whereby the product can be isolated from the source and techniques used to identify the product. These studies lay the ground work for the pharmacological evaulation of a potentially useful natural product or biochemical investigation of a natural toxin.
- A plan of study in natural products would emphasize courses in natural products and medicinal chemistry, chemistry, botany, and microbiology with support courses in pharmacology and pharmaceutics.

Faculty with an interest in Natural Products Chemistry:

- Dr. Ronald A. Hill, Associate Professor of Medicinal Chemistry
- Dr. Khalid El Sayed, Assistant Professor of Medicinal Chemistry

Required Courses for Natural Products Chemistry

Chemistry 2007 **OR** Chemistry 5041 & 5042	Instrumental Analysis
Pharmacy 4009	Medicinal Chemistry II
Pharmacy 4010	Medicinal Chemistry III
Pharmacy 5066 and 5068	Molecular Structure & Function of Proteins
Pharmacy 5031	Synthetic Medicinals
Pharmacy 5039	Special Topics
Pharmacy 5052	Seminar
Pharmacy 5069	Concepts in Drug Design
Pharmacy 5099 **OR** Pharmacy 6099	Thesis Research/Dissertation Research