## CHEM4332 - Total Synthesis of Natural Products

<u>CHEM 4332</u> Total Synthesis of Natural Products (3 semester credit hours) This course covers the reactions, strategies, and tactics needed to tackle the challenge presented by architecturally complex natural products. Examples of cutting-edge methods for bond-forming reactions will be presented, as will the tools necessary to logically analyze and build complex molecular targets. The course covers the principles of retrosynthetic analysis with the goal of teaching the students how to logically analyze complex molecular targets and design a total synthesis, two highly coveted skills in a world where many industries (such as drug discovery and development) are moving toward increasingly complex targets. Prerequisite: <u>CHEM 2325</u> or <u>CHEM 2328</u>. (3-0) R