



Course Number Course Name	BIOL 4431 Drugs and Their Actions
Credit Value (Breakdown of theory and lab credits)	3 Theory
Catalog Course Description	You will study the basic principles of pharmacology, including how drugs exert their effects on the body. You will study the major categories of drugs and their actions, including antibiotics, anti-inflammatories, hormones, analgesics, and drugs that affect the central nervous system.
Course Student Learning Outcomes/Objectives /Competencies	<p>OBJECTIVES include, but are not limited to, the following:</p> <ol style="list-style-type: none"> 1. The student will identify the ethical and legal considerations related to psychopharmacological treatment with children, adolescents, and adults. 2. The student will demonstrate knowledge of basic neurobiology to include the functions of the brain and neurological system, the anatomy and function of neurons, the role of neurotransmitters involved in emotions and behavior, and the electrical and chemical communications between cells. 3. The student will demonstrate an understanding of psychopharmacology and pharmacokinetics to include routes of drug administration; drug absorption, distribution and metabolism; pharmacokinetic principles, and prescription and pharmacy terms. 4. The student will identify current pharmacological medications to include basic classifications, indications, therapeutic effects, side-effects, and contraindications for usage in the following disorders: unipolar depression, bipolar depression, anxiety disorders, psychotic disorders (schizophrenia), disorders of attention, and personality disorders. 5. The student will be able to express an understanding of the importance of collaboration and psychoeducation with health care professionals and family and social networks in the management of pharmacological treatment
College-Wide Student Learning Outcomes measured (General education courses only)	
Program Student Learning Outcomes measured	<ol style="list-style-type: none"> 1. Provide students with technical and analytical skills used in modern biological research. This will allow the students to demonstrate proper and safe laboratory practice, proper use of equipment and the ability to work effectively with computational, mathematical and statistical approaches.