

Dept of Biology  
Undergraduate Program Curriculum Map  
BS in Biomedical Sciences  
Aug-19

Definition of Terms		Common prerequisites		Major courses													Elective Courses																							
<p>I = <b>introduce</b> = the level of learning expected of a novice  R = <b>reinforce</b> = the level of instruction and learning expected with students who have been introduced to concepts of skills previously; not the final goal state  M = <b>mastery</b> = the intended state of learning the program aspires to achieve</p>				BSC 2010/2011 Biology I and II	CHM 2045/2046 General Chemistry I and II	CHM 2211/2212 Organic Chemistry I and II	PHY 2053/2054 Physics I and II	BSC 2844 Biology Skills	PCB 3063 Genetics	PCB 3063L Genetics Lab	PCB 3103 Cell Biology	MCB 3020 General Microbiology	MCB 3020L General Microbiology Lab	BCH 3033 Biochemistry I	PCB 3097 Introduction to Human Anatomy	PCB 4233 Immunology	PCB 4524 Molecular Biology	PCB 4098 OR PCB 4723 Concepts Human Phys. or Comp. Anim. Phys.	PCB 4673 Principles of Evolution	BCH 3033L Biochemistry Lab	BOT 4503L Plant Physiology Lab	BOT 4734L Plant Biotechnology LAB	BOT 4850 Medicinal Botany	BOT 4850L Medicinal Botany LAB	PCB 3103L Cell Biology Lab	PCB 4253 Developmental Biology	PCB 4253L Developmental Biology Lab	PCB 4233L Immunology Lab	PCB 4524L Molecular Biology Lab	PCB 4098L or PCB 4723L Concepts Human Phys. Lab or Comp. Anim. Phys. L	BCH 3034 Biochemistry II	PCB 4098 Concepts Human Physiology or Comp. Anim. Phys.	HSC 3555 Pathophysiology	BOT 4503 Plant Physiology	BOT 4734 Plant Biotechnology	PCB 4871 Sensory Biology	PCB 4922 Biology seminar	PCB 4905 Directed Independent Study		
Integrity/Values	Describe ethical challenges involved in conducting biomedical research with humans and animals	I						I	R	R	R	R	R	R	R	M	M	M	M	R	M	M	M	R	M	M	M	M	M	M	M	R	M	M	M	M	M	M	M	M
Communication	Communicate biomedical information in oral and written form employing appropriate technology	I						I	R	R	R	R	R	R	R	M	M	M	M	R	M	M	M	R	M	M	M	M	M	M	M	M	R	M	M	M	M	M	M	M
Critical Thinking	Apply scientific method to solve problems in the biomedical sciences	I						I	R	R	R	R	R	R	R	M	M	M	M	R	M	M	M	R	M	M	M	M	M	M	M	M	R	M	M	M	M	M	M	M
Content	Identify and use the concepts, principles, and theories that constitute the core of the biomedical sciences	I						I	R	R	R	R	R	R	R	M	M	M	M	R	M	M	M	R	M	M	M	M	M	M	M	M	R	M	M	M	M	M	M	M