Dept of Biology
Undergraduate Program Curriculum Map
BS in Biology
Jul-19

Definition of Terms

I = introduce = the level of learning expected of a novice
R = reinforce = the level of instruction and learning expected with students who have been introducced to concepts of skills previously; not the final goal state
M = mastery = the intended state of learning the program aspires to achieve

Common prereq

		BSC 2010/2011 Biology I and II	CHM 2045/2046 General Chemistry I and II	CHM 2211/2212 Organic Chemistry I and II	PHY 2053/2054Physics I and II
Content	Identify and use the concepts, principles, and theories that constitute the core of the biological sciences	I	I	R	I
Critical Thinking	Apply scientific method to solve problems in the biological sciences	I	I	R	I
Communication	Use language in oral and written form effectively and professionally	I			
Integrity/Values	Describe ethical challenges involved in conducting scientific research with animals	I			

Major courses

	BSC 2844 Biology Skills	PCB 3063 Genetics	PCB 3063L Genetics Lab	PCB 3103 Cell Biology	MCB 3020 General Microbiology	MCB3020 General Microbiology Lab	BCH 3033 Biochemistry I	PCB 4524 Molecular Biology OR BOT 4374 Plant Biotechnology	PCB 3043 Ecology	PCB 3043L Ecology Lab	PCB498 Concepts in Human Phys. OR PCB 4723 Comparative Animal Phys. OR BOT 453 Plant P	PCB 4673 Principles of Evolution
Content		R	R	R	R	R	M	M	M	M	M	M
Critical Thinking	I	R	R	R	R	R	M	M	M	M	M	M
Communication	I	R	R	R	R	R	M	M	M	M	M	M
Integrity/Values		R	R	R	R	R	M	M	M	M	M	M

Elective Courses

	BCH 3033L Biochemistry Lab	BCH 3034 Biochemistry II	BOT 4374 Plant Developmental Biology	BOT 4374L Plant Developmental Lab	PCB 4253 Developmental Biology	PCB 4253L Developmental Biology Lab	BOT 4503 Plant Physiology (if not taken as a core requirement)	BOT 4503L Plant Physiology Lab	BOT 4734 Plant Biotechnology (if not taken as a core requirement)	BOT 4734L Plant Biotechnology Lab	BOT 4850 Medicinal Botany	BOT 4850L Medicinal Botany Lab	PCB 3103L Cell Biology Lab	PCB 4098 Concepts in Human Phys. (if not taken as a core requirement)	PCB 4098L Concepts in Human Phys. Lab	PCB 4233L Immunology Lab	PCB 4364 Marine Ecophysiology	PCB 4364L Marine Ecophysiology Lab	PCB 4524 Molecular Biology (if not taken as a core requirement)	PCB 4524L Molecular Biology Lab	PCB 4723 Comp. Anim. Phys. (if not taken as a core requirement)	PCB 4723L Comp. Anim. Phys. Lab	PCB 4871 Sensory Biology	PCB 4905 Directed Independent Study	PCB 4922 Biology seminar	ZOO 4454 Elasmobranch Biology	ZOO 4457 Ichthyology	ZOO 4485 Marine Mammalogy	ZOO 4513 Animal Behavior	ZOO 4472 Avian Science
Content	R	M	M	M	M	M	M	M	M	M	M	M	R	M	M	M	M	M	M	M	M	M	M	M		M	M	M	M	M
Critical Thinking	R	M	M	M	M	M	M	M	M	M	M	M	R	M	M	M	M	M	M	M	M	M	M	M		M	M	M	M	M
Communication	R	M	M	M	M	M	M	M	M	M	M	M	R	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Integrity/Values	R	M		M	M	M					M	M	R	M	M	M	M	M	M	M	M	M	M	M					M	M