Department: Biological and Health Sciences Program: B.S. in Biology

Skill Set	Professional Application	Delivery of Skill Set Courses, extracurricular activities, etc. in which the skill set is introduced (I), reinforced (R), or mastered (M)).
Core Skill: Critical Thinking and Problem Solving Skills	 -Use of logic and reasoning to interpret scientific results -Identify proper controls to use for experiments -Identify non-factual and psuedoscientific arguments -Design methods for testing hypotheses 	-BIOL 1306/1307: General Biology I/II (I) -BIOL 2421: General Microbiology (R) -BIOL 3408: Animal Physiology (M) -BIOL 3402: Genetics (M)
Communicate Effectively	-Ability to make effective oral presentations -Ability to communicate scientific ideas and concepts in writing -Ability to listen to and interpret scientific presentations -Ability to read, interpret and summarize scientific articles	-BIOL 4102: Seminar (M) -BIOL 3407: Ecology (M)
Work collaboratively	 -Ability to work in teams to perform scientific experiments -Ability to work in teams to develop presentations -Ability to understand and follow oral/verbal instructions and protocols developed by others -Ability to lead team projects and motivate others 	-BIOL 1306/1307: General Biology I/II (I) -BIOL 2421: General Microbiology (R) -BIOL 3407: Ecology (M) -BIOL 3408: Animal Physiology (M) -BIOL 4401: Molecular Biology (M) -BIOL 4426: Cellular Physiology (M)
Discipline-Based Skill: Laboratory/Field Techniques	 -Ability to utilize scientific equipment to perform experiments -Ability to conduct course-specific experiments using established techniques -Ability to conduct field-based experiments -Ability to conduct 	 BIOL 3407: Ecology (M) BIOL 3408: Animal Physiology (M) BIOL 3409: Field Biology I (M) BIOL 4304: Research Projects in Biology BIOL 4401: Molecular Biology (M) BIOL 4410: Topics in Biology BIOL 4425: Ornithology (M) BIOL 4426: Cellular Physiology (M) BIOL 4427: Herpetology (M) BIOL 4429: Mammalogy (M) BIOL 4434: Biology of Forensic Science I (M) BIOL 4435: Biology of Forensic Science II (M)