## Department: Biological and Health Sciences Program: B.S. in Biology with Teacher Certification

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 psueoscientific 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, interpet 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)