

Department: Biological and Health Sciences

Program: B.S. in Biomedical Science

Skill Set	Professional Application	How Delivered to Students 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	<ul style="list-style-type: none"> -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 	<ul style="list-style-type: none"> -BIOL 1306/1307: General Biology I/II (I) -BIOL 2421: General Microbiology (R) -BIOL 3408: Animal Physiology (M) -BIOL 3402: Genetics (M) -BIOL 4401: Molecular Biology (M) -BIOL 4426: Cellular Physiology (M)
Communicate Effectively	<ul style="list-style-type: none"> -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 	<ul style="list-style-type: none"> -BIOL 4102: Seminar (M) -BIOL 3407: Ecology (M) -BIOL 4401: Molecular Biology (M) -BIOL 4426: Cellular Physiology (M) -BIOL 4434: Cellular and Molecular Neurobiology (M) -BIOL 4432: Pathophysiology (M)
Work collaboratively	<ul style="list-style-type: none"> -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 	<ul style="list-style-type: none"> -BIOL 1306/1307: General Biology I/II (I) -BIOL 2421: General Microbiology (R) -BIOL 3408: Animal Physiology (M) -BIOL 4401: Molecular Biology (M) -BIOL 4426: Cellular Physiology (M)
Discipline-Based Skill: Laboratory/Field Techniques	<ul style="list-style-type: none"> -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 	<ul style="list-style-type: none"> -BIOL 3407: Ecology (M) -BIOL 3408: Animal Physiology (M) -BIOL 4304: Research Projects in Biology -BIOL 4401: Molecular Biology (M) -BIOL 4402: Vertebrate Embryology (M) -BIOL 4406: Bacteriology (M) -BIOL 4410: Topics in Biology --BIOL 4426: Cellular Physiology (M) -BIOL 4433: Histology (M) -BIOL 4434: Biology of Forensic Science I (M) -BIOL 4435: Biology of Forensic Science II (M)