



**BIOLOGY ELECTIVES:** Students must take no less than 18 credits of Biology/Biology Research Professions courses from the elective course list below. These are the only ones that can satisfy the requirement for this concentration. Substitutions can be requested, under special circumstances, but require written approval of advisor and Chair in advance.

**REQUIREMENTS:** Students must take each of the five biology core courses (101, 102, 215, 210 and 310) in order and earn a “C” or higher in each before being able to progress to the next in the sequence or to take any 300 or 400 level Biology Department course. These grade requirements take precedence over and supersede any lesser specific prerequisites of all 300 or 400 level Biology electives.

**SPECIAL NOTES:** For all programs and concentrations in the Department of Biological Sciences, a grade of “C” or better is required for all courses.

All Biology majors on the Research Professions Concentration must complete an independent research project. Those who have completed a research project with a faculty member prior to the beginning of their senior year should register for BIOL 301 Senior Capstone I course with advisor/Chair approval. If the project was an internship at another institution, students must present their data to their advisor. BIOL 451 is not acceptable for students on the Research Professions Concentration. All Biology majors are required to successfully complete Senior Seminar (Capstone II, BIOL-499), no waivers or substitutions. Registration for BIOL 499 requires completion of BIOL 301(cannot co-register).

**General Note:** The minimum University requirement for graduation is 120 hours; in Biology you will usually complete between 121-125 hours depending on selections.

## Research Professions

### Recommended Biology Electives<sup>^</sup>:

BIOL-307 Principles of Physiology  
BIOL-311 Neuroscience  
BIOL-317 Principles of Virology  
BIOL-322 Microbiology  
BIOL-370 Human Anatomy  
BIOL-411 Pharmacology  
BIOL-420 Immunology  
BIOL-442 Biology of Aging  
BIOL-464 Toxicology

### Recommended Biology Research Professions Electives<sup>^</sup>:

AGRI-205 Plant Physiology  
AGRI-325 Introduction to Entomology  
ENGR-409 Biosensors and Bioinstrumentation  
(requires PHYS 318)  
ENGR-410 Molecular Engineering Systems (requires  
PHYS 318)  
PHYS 316 Introduction to Optics  
PHYS 318 Foundations of Bioengineering  
PHYS 323 Nanotechnology

<sup>^</sup> Electives not on the list require advisor / Chair written approval in advance. Non-majors biology courses are not suitable electives for Biology Majors, and will not be approved.