

BIOLOGY MAJOR

2022-23 USEFUL TIPS FOR NEW STUDENTS INTERESTED IN THE MAJOR

FALL TERM

The Common Path for first year students: Most first years hoping to major in Biology will take **both Chemistry** (Chem 101/101L or Chem 105/105L) and **Biology** (Bio 207/207L) in their first semester.

Chemistry 101/105 is a prerequisite for Human Physiology (the second semester biology core course for first year students). The chemistry placement exam will determine if you are in Chem 105 or Chem 101/102.

Alternate Fall Term Paths for interested first years:

1. If you are concerned about taking two science lecture and laboratory courses in your first semester, then you might consider taking just **Chemistry** (Chem 101/101L or Chem 105/105L). This will allow you to take Human Physiology (Bio 220/220L) in the spring. You can pick up Bio 207/207L in your sophomore or junior fall.
2. If you are concerned about chemistry and want a gentler entry into biology you could consider just taking Bio 207/207L. This pathway might be better for those considering a BA versus a BS degree in Biology.

Please note: You must have the same instructor for ECOLOGY Lecture and Lab

<u>Instructor</u>	<u>Lecture</u>	<u>Lab</u>
Godard	MWF 9:10-10:10 CRN 96029	M 1:30-4:30 (CRN 96033) T 1:30-4:30 (CRN 96035)
Allison	MWF 8:00 – 9:00 CRN TBA MWF 9:10-10:10 CRN 96030	T 1:30-4:30 (CRN TBA) W 1:30-4:30 (CRN 96037) Th 1:30-4:30 (CRN 96039)

SPRING TERM:

Most first year students will take another semester of chemistry (CHEM 102/102L or CHEM 214/214L) and Human Physiology (Bio 220/220L). *If you did not take chemistry in the first semester you can request permission to take Human Physiology in the spring. Students that have not had chemistry will need to sign a waiver committing to drop the course if you do not receive a C on the first exam.*

BA Degree	BS Degree
<ul style="list-style-type: none"> • Core Biology Courses + Labs (Ecology, Human Physiology, Cell & Molecular Biology, Sophomore Seminar, Senior Seminar - 22 credits) • Five upper level Biology courses • Internship in Biology • One statistics course (STAT 140 or PSY 208) • Chem 101/102 or Chem 105 + labs 	<ul style="list-style-type: none"> • Core Biology Courses + Labs (Ecology, Human Physiology, Cell & Molecular Biology, Sophomore Seminar, Senior Seminar - 22 credits) • Five upper level Biology courses (minimum of three at 300 level with labs) • Internship in Biology • One statistics or upper level math course • Chem 101/102 or Chem 105 + labs • An additional year of chemistry at 200 level • Physics 151/152 or 201/202 + labs
MINOR: FIVE courses <ul style="list-style-type: none"> • At least two of the core courses + lab (Ecology, Human Physiology, Cell & Molecular Biology) • Three additional upper level courses + labs if applicable 	

Interested in veterinary medicine.

The B.S. degree is ideal for students interested in pursuing advanced degrees in veterinary medicine as vet schools require 2 semesters of organic chemistry and general physics. In addition, each vet school will have specific required biology courses (e.g. biochemistry, microbiology, genetics, vertebrate anatomy). Please visit www.aavmc.org to find out what vet schools you are interested in require and then consult with one of the Biology faculty to plan your upper level elective courses.

Interested in an MD or DO in human medicine.

The B.S. degree is ideal for students interested in pursuing an MD or OD as medical schools require 2 semesters of organic chemistry and general physics. In addition, you will need to take an introductory course in Psychology or Sociology, an introductory course in statistics, and have a full year of English (or writing intensive courses). Math requirements vary among medical schools, so it is strongly recommended that you consult the medical schools you are interested in for specific requirements (visit www.aamc.org). See the premed advisor (Dr. Brian Gentry), for more information.

Interested in other health professions (e.g. physical therapy, occupational therapy, physician's assistant, nursing)

Requirements for entry into other programs vary by school and program. Most will require **at least** one year of chemistry, many require a semester of human anatomy, and some require a semester of organic or particular upper level biology courses. Please consult specific graduate programs of interest and visit the premed advisor, Dr. Brian Gentry.

Interested in study abroad

There are a number of opportunities to study abroad and take Biology courses toward the major. We have reciprocal agreements with the **University of Limerick** (which offers many Biology and equine courses) and the **School for Field Studies** (which offers semester field programs in Costa Rica, Kenya or Tanzania, Panama, Turks & Caicos Islands, Bhutan, Australia, Peru, Patagonia, and Cambodia/Vietnam). With careful planning you can attend other non-Biology related abroad programs (e.g. London). Contact Ramona Kirsch or one of the biology faculty for more information.