



Checklist for Bachelor of Science Degree in Biology, General Biology Option

Highly Recommended Courses:

BIO	1023	General Biology for Majors
BIO	1021	Introduction to Biology Laboratory
CHM	1034/1044	General Chemistry for Non-Majors/General Organic and Biochemistry

Required (Core) Courses (24 hrs):

BIO	2104	General Botany
BIO	2114	General Zoology

Biology majors are required to enroll in and successfully complete botany (BIO2104) and zoology (BIO2114) within their first four semesters at HSU. Students must meet with their departmental advisor to determine the schedule appropriate for them.

BIO	2094	Microbiology
BIO	3054	Genetics
BIO	3524	General Ecology
BIO	4214	Cell Biology

Choose ONE (1) from the following courses (4 hrs):

BIO	3304	Plant Physiology
BIO	3314	Animal Physiology

Choose ONE (1) from the following courses (4 hrs):

BIO	3084	Comparative Anatomy and Evolution of Vertebrates
BIO	3244	Comparative Morphology and Evolution of Plants

Electives—Choose TWO of the following if not used above to fill another requirement (7-8 hrs):

A minimum of two additional upper-level courses in biology must be selected. These two courses may be from the list below, or also may be from the courses listed above, if not already used. BIO 4251, BIO 4373, BIO4451, and BIO 4823 may not be used for this requirement. *Two semesters of Human Anatomy and Physiology will satisfy one of these requirements.

- BIO 3084 Comparative Anatomy and Evolution of Vertebrates
- BIO 3244 Comparative Morphology and Evolution of Plants
- BIO 3294 Plant Taxonomy
- BIO 3304 Plant Physiology
- BIO 3314 Animal Physiology
- BIO 3404 Herpetology
- BIO 3494 Biogeography
- *BIO 3544, 3554 Human A and P I and II (both required to count as 1 elective)
- BIO 4034 Ornithology
- BIO 4044 Neotropical Ecology
- BIO 4074 Dendrology
- BIO 4164 Entomology

BIO 4194 Animal Histology
BIO 4204 Aquatic Ecology
BIO 4224 Ichthyology
BIO 4234 Mycology
BIO 4324 Tropical Marine Biology
BIO 4344 Phycology
BIO 4354 Mammalogy
BIO 4414 Infection and Immunity
BIO 4504 Behavioral Ecology
BIO 4563 Biology of Cancer
BIO 4383 Wildlife Biology and Conservation
BIO 4393 Wildlife Management Techniques

Additional requirements, physical sciences and mathematics (30 hrs):

CHM 1014, 1024 University Chemistry I and II
CHM 3063, 3073 Organic Chemistry I and II
CHM 3051, 3131 Organic Chemistry I and II Lab
MTH 1243, STA 2053 College Algebra and Applied Biostatistics or more advanced courses, with approval.
PHY 2034, 2044 General Physics I and II

Total hours required for a major in biology, general biology and pre-professional option:.....68-70

Biology Courses: 38-40 hours

Physical Science and Mathematics Courses: 30 hours

Students must have a "C" grade or better in all courses in the major field and also in the courses listed as "additional requirements."

The biology department highly recommends that students achieve competence in the use of computers for word processing, graph and spreadsheet construction, and PowerPoint presentations before enrolling in upper-level courses. Students should consider enrolling in Introduction to Computers (CSC 2003) if their background in computer use is weak.