Biology BS
Department of Biology, 143 BB, (319) 335-1050

Core Biology Courses
BIOL 1411  Foundations of Biology
BIOL 1412  Diversity of Form & Function
BIOL 2512  Fundamental Genetics
BIOL 2723  Cell Biology

BS Biology Cognate Courses
CHEM 1110  Principles of Chemistry I and CHEM 1120  Principles of Chemistry II
CHEM 2210  Organic Chemistry I

BIOC 3110  Biochemistry*  OR
BIOC 3120  Biochemistry & Molecular Biology I and BIOC 3130  Biochemistry & Molecular Biology II
*an additional approved science course is required with the single semester of Biochemistry

PHYS 1511  College Physics I and PHYS 1512  College Physics II  OR
       PHYS 1611  Intro Physics I and PHYS 1612  Intro Physics II

MATH 1460  Calculus for the Biological Sciences  OR
       MATH 1850  Calculus I  OR  MATH 1550  Engineering Math I

STAT 3510  Biostatistics  OR  STAT 2010  Statistical Methods and Computing

BS Experiential Elective
All BS tracks do research, teaching, an additional investigative lab, approved field course, or internship.

BS Track Choices
Cell and Developmental Biology
Genetics and Biotechnology
Neurobiology
Integrative Biology
(See Biology department website for Track course requirements)
Biology BA
Department of Biology, 143 BB, (319) 335-1050

Core Biology Courses
BIOL 1411  Foundations of Biology
BIOL 1412  Diversity of Form & Function
BIOL 2512  Fundamental Genetics
BIOL 3172  Evolution
BIOL 2723  Cell Biology

Biology Courses

Biological Systems Courses—Choose Two:
BIOL 2254  Endocrinology
BIOL 2603  Mechanisms of Aging
BIOL 2673  Ecology
BIOL 2753  Intro to Neurobiology
BIOL 3233  Intro to Developmental Biology
BIOL 3244  Animal Behavior
BIOL 3253  Neurobiology
BIOL 3343  Animal Physiology
BIOL 3363  Plant Developmental Biology
BIOL 3383  Intro to Systems Biology
BIOL 3663  Plant Response to the Environment
BIOL 4333  Genes and Development

Genes/Genomes Course—Choose One:
BIOL 2246  Entomology Lab
BIOL 2346  Vertebrate Zoology
BIOL 3244  Animal Behavior
BIOL 3626  Cell Biology Lab
BIOL 3655  Neurogenetics Lab
BIOL 3656  Neurobiology Lab
BIOL 3676  Evolution Lab
BIOL 3716  Genetics and Biotechnology Lab
BIOL 3736  Developmental Biology Lab
BIOL 4314  Introduction to Synthetic Biology in the Lab
BIOL 4999  Honors Research in Biology
MICR 2157 & 2158  General Microbiology & Lab
Iowa Lakeside Lab courses (consult advisor)

BA Biology Cognate Courses
CHEM 1110  Principles of Chemistry I
CHEM 1120  Principles of Chemistry II
BIOC 3110  Biochemistry
MATH 1460  Calculus for Biological Sciences OR MATH 1550  Engineering Calculus I OR MATH 1850  Calculus I
STAT 3510  Biostatistics OR STAT 2010  Statistical Methods and Computing

Biology Electives
At least two courses (6 sh total) numbered BIOL 2000 and above (excluding BIOL 2120 and 2211)

BA Electives—12 sh of approved courses
See Biology department website for list of approved courses

Academic Advising Center/Fall 2021