

Biology BA Curriculum Checklist

Fall 2024 Spring 2025

- BIOL2000 Molecules & Cells
- BIOL2010 Ecology & Evolution
- BIOL2040 Investigations in Molecular Cell Biology Lab (
- Category A: Genetics & Genomics

BIOL3050 Genetics
BIOL3060 Foundations in Genetics (
BIOL3150 Introduction to Genomics

- Category B: Physiology & Organismal Biology

BIOL3030 Comparative Vertebrate Physiology (
BIOL3320 Developmental Biology (
BIOL4110 Ornithology
BIOL4330 Human Physiology
BIOL4450 Behavioral Ecology
BIOL4540 Neuroscience

- One Advanced Experience Course

- Choose Biology courses 3000 level or above to bring the total Biology credits to 33

9 of the 33 credits may be from the approved BA elective list

(or from another course preapproved by the department).

CO-REQUISITES

Chemistry

- General Chemistry 1 & 2 with Labs (CHEM1109-1110; 1111-1112)

Math

- Calculus 1 (MATH 1100) or equivalent

2024-2025 BIOLOGY ELECTIVES

Biology Electives are 3 credits each unless otherwise noted.

Comparative Vertebrate Physiology (BIOL3030)
 Cell Biology (BIOL3040)
 Genetics (BIOL3050) 4 cr
 Research Methods in Organismal Biology (BIOL3140)
 Virology (BIOL4090)
 Inflammation and Disease (BIOL4120)
 Microbiology (BIOL4140)
 Introduction to Bioinformatics (BIOL4200)
 Human Anatomy with Lab (BIOL4260) 4 cr
 Metabolic Regulation and Human Disease (BIOL4290)
 Vaccination and Immunity (BIOL4440)
 Neuroscience (BIOL4540)

Comparative Vertebrate Physiology (BIOL3030)
 Cell Biology (BIOL3040)
 Foundations of Microbiology (BIOL3090)
 Introduction to Genomics (BIOL3150)
 Ecology in a Changing Climate (BIOL3200)
 Developmental Biology (BIOL3320)
 Deep Sea Biology (BIOL4030)
 Population Genetics (BIOL4250)
 Human Physiology with Lab (BIOL4330) 4 cr
 Biological Chemistry (BIOL4350)
 Molecular Biology (BIOL4400)
 Behavioral Ecology (BIOL4450)
 Cancer Biology (BIOL4510)
 Principles of Immunology (BIOL4570)

ADVANCED EXPERIENCE COURSES

Seminars (3 credits)
 Nobel Winning Res in Medicine or Physio (BIOL5010) —2 cr
 Topics in Developmental Biology (BIOL5040) —2 cr
 Microbiome and Human Disease (BIOL5100) —2 cr
 Environmental Disruptors of Development (BIOL5130)
 Glycobiology and Human Disease (BIOL5200) —2 cr
 Molecular Basis of Disease (BIOL5390) —2 cr
 Cancer as a Metabolic Disease (BIOL5420)