

Biology BS Curriculum Checklist

Fall 2024 Spring 2025 (updated 03/07/2024)

Completed

Required Courses

- BIOL2000 Molecules & Cells (*fall/spring*)
- BIOL2010 Ecology & Evolution (*fall/spring*)
- BIOL2040 Investigations in Molecular Cell Biology Lab (*fall/spring*) *NOTE: Taken after BIOL2000*
- Category A: Genetics & Genomics
 - One from the following:*
 - BIOL3050 Genetics (*fall only*) 4 cr
 - BIOL3060 Introduction to Genetics (*summer only*)
 - BIOL3150 Introduction to Genomics (*spring only*)

- Category B: Physiology & Organismal Biology
 - One from the following:*
 - BIOL3030 Comparative Vertebrate Physiology (*fall only*)
 - BIOL3320 Developmental Biology (*spring only*)
 - BIOL4110 Ornithology (*not offered in AY24-*)

2024-2025 BIOLOGY ELECTIVES

Biology Electives are 3 credits each unless otherwise noted.

<i>Fall 2024</i>	<i>Spring 2025</i>
³ Comparative Vertebrate Physiology (BIOL3030) ² Cell Biology (BIOL3040) ⁴ Genetics (BIOL3050) 4 cr ³ Research Methods in Organismal Biology (BIOL3140)* ¹ Virology (BIOL4090) ^{2,3} Inflammation and Disease (BIOL4120) ¹ Microbiology (BIOL4140) ⁴ Introduction to Bioinformatics (BIOL4200) ³ Human Anatomy with Lab (BIOL4260) 4 cr ^{2,3} Metabolic Regulation and Human Disease (BIOL4290) ¹ Vaccination and Immunity (BIOL4440) ^{2,3} Neuroscience (BIOL4540)	² Cell Biology (BIOL3040) ¹ Foundations of Microbiology (BIOL3090) ⁴ Introduction to Genomics (BIOL3150) ³ Ecology in a Changing Climate (BIOL3200) ² Developmental Biology (BIOL3320) ³ Deep Sea Biology (BIOL4030) ⁴ Population Genetics (BIOL4250)* ³ Human Physiology with Lab (BIOL4330) 4 cr ^{1,2,3} Biological Chemistry (BIOL4350) ^{2,4} Molecular Biology (BIOL4400) ³ Behavioral Ecology (BIOL4450) ² Cancer Biology (BIOL4510) ^{1,4} Principles of Immunology (BIOL4570)

BIOLOGY ELECTIVES OFFERED IN OTHER DEPARTMENTS

<i>Fall 2024</i>	<i>Spring 2025</i>
Biochemistry I (CHEM4461)	Biochemistry II (CHEM4462) Drug Discovery and Medicinal Chemistry (CHEM5510) Synthetic Biology (CHEM5513)

ADVANCED EXPERIENCE COURSES

<i>Fall 2024</i>	<i>Spring 2025</i>
Seminars (3 credits) ² Nobel Winning Res in Medicine or Physio (BIOL5010) —2 cr ^{2,3,4} Topics in Developmental Biology (BIOL5040)	