

# 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>
<sup>3</sup> Comparative Vertebrate Physiology (BIOL3030) <sup>2</sup> Cell Biology (BIOL3040) <sup>4</sup> Genetics (BIOL3050) 4 cr <sup>3</sup> Research Methods in Organismal Biology (BIOL3140)* <sup>1</sup> Virology (BIOL4090) <sup>2,3</sup> Inflammation and Disease (BIOL4120) <sup>1</sup> Microbiology (BIOL4140) <sup>4</sup> Introduction to Bioinformatics (BIOL4200) <sup>3</sup> Human Anatomy with Lab (BIOL4260) 4 cr <sup>2,3</sup> Metabolic Regulation and Human Disease (BIOL4290) <sup>1</sup> Vaccination and Immunity (BIOL4440) <sup>2,3</sup> Neuroscience (BIOL4540)	<sup>2</sup> Cell Biology (BIOL3040) <sup>1</sup> Foundations of Microbiology (BIOL3090) <sup>4</sup> Introduction to Genomics (BIOL3150) <sup>3</sup> Ecology in a Changing Climate (BIOL3200) <sup>2</sup> Developmental Biology (BIOL3320) <sup>3</sup> Deep Sea Biology (BIOL4030) <sup>4</sup> Population Genetics (BIOL4250)* <sup>3</sup> Human Physiology with Lab (BIOL4330) 4 cr <sup>1,2,3</sup> Biological Chemistry (BIOL4350) <sup>2,4</sup> Molecular Biology (BIOL4400) <sup>3</sup> Behavioral Ecology (BIOL4450) <sup>2</sup> Cancer Biology (BIOL4510) <sup>1,4</sup> 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) <sup>2</sup> Nobel Winning Res in Medicine or Physio (BIOL5010) —2 cr <sup>2,3,4</sup> Topics in Developmental Biology (BIOL5040)	