

**Purdue University  
College of Science**

**Biology Minor (BIOS)**

**The following courses describe the minimum coursework necessary to earn a minor in Biology. ALL COURSES FOR THIS MINOR MUST BE TAKEN AT PURDUE UNIVERSITY**

**Part I - Complete the following courses: (7-8 credits)**

BIOL 12100	Diversity, Ecology, and Behavior (2 cr.)
BIOL 13100	Structure and Function of Organisms (3 cr.)
BIOL 13500	First Year Biology Lab (2 cr.)
<b>OR</b>	
BIOL 11000	Fundamentals of Biology 1 (4 cr)
BIOL 11100	Fundamentals of Biology 2 (4 cr)

**Part II - Complete the following courses: (6 credits)**

BIOL 23100	Cell Structure & Function (3 cr.) or BIOL 230 Biology of the Living Cell (3 cr)
BIOL 24100	Genetics and Molecular Biology (3 cr.) or AGRY 320 Genetics (3 cr.)

**Part III - Complete one of the following courses: (2-4 credits)**

BIOL 28600	Introduction to Ecology & Evolution (2 cr.; spring)	BIOL 51400	Laboratory in Crystallography (2 cr.; fall)
BIOL 30100 <sup>1</sup>	Human Anatomy & Physiology (3 cr.; fall)	BIOL 51600	Molecular Biology of Cancer (3 cr.; spring)
BIOL 30200 <sup>1</sup>	Human Anatomy & Physiology (3 cr.; spring)	BIOL 51700	Molecular Biology: Proteins (2 cr.; spring)
BIOL 39500 <sup>2</sup>	Macromolecules (3 cr.; fall)	BIOL 53700	Immunology (3 cr.; spring)
BIOL 39500 <sup>2</sup>	Principles of Development (4 cr.; spring)	BIOL 53800	Molecular, Cellular & Developmental Neurobiology (3 cr.; spring)
BIOL 39500 <sup>2</sup>	Principles of Physiology (4 cr.; spring)	BIOL 55900	Endocrinology (3 cr.; fall)
BIOL 41500	Intro. to Molecular Biology (3 cr.; fall)	BIOL 56200	Neural Systems (3 cr.; spring)
BIOL 41600	Molecular Virology (3 cr.; spring)	BIOL 57300	Molecular Biology of Animal Cells (3 cr.; fall)
BIOL 42000	Eukaryotic Cell Biology (3 cr.; fall)	BIOL 58000	Evolution (3 cr.; spring)
BIOL 43200	Reproductive Physiology (3 cr.; fall)	BIOL 59200	Evolution of Behavior (3 cr.; spring)
BIOL 43600	Intro. to Neurobiology (3 cr.; fall)	BIOL 59500	Animal Communication (3 cr.; alternate fall)
BIOL 43800	General Microbiology (3 cr.; fall)	BIOL 59500	Developmental Biology (3 cr.; fall)
BIOL 43900	Microbiology Lab (2 cr.; fall)	BIOL 59500	Methods & Measurement in Physical Biochemistry (3 cr.; fall)
BIOL 44400	Human Genetics (3 cr.; fall)	BIOL 59500	Protein Bioinformatics (3 cr.; spring)
BIOL 44600	Cellular Microbiology (3 cr.; spring)	BIOL 59700	Sex and Evolution (3 cr.; alternate fall)
BIOL 47800	Intro to Bioinformatics (3 cr.; fall)	BIOL 59900	Quantitative Physiology (3 cr.; spring)
BIOL 48100	Eukaryotic Genetics (3 cr.; spring)		
BIOL 48300	Environmental & Conservation Biology (3 cr.; alternate fall)		
BIOL 49300	Intro. to Ethology (3 cr.; fall)		
BIOL 51100	Intro. to X-Ray Crystallography (3 cr.; spring)		

**Part IV - Complete at least one of the following laboratory courses:**

BIOL 23200	Laboratory in Cell Structure & Function (2 cr.; fall)
BIOL 24200	Laboratory in Genetics & Molecular Biology (2 cr.; spring)
BIOL 30100 <sup>1</sup>	Human Anatomy & Physiology (3 cr.; fall)
BIOL 30200 <sup>1</sup>	Human Anatomy & Physiology (3 cr.; spring)
BIOL 39500 <sup>2</sup>	Principles of Physiology (4 cr.; spring) (will soon be BIOL 32800)
BIOL 39500 <sup>2</sup>	Developmental Biology (4 cr.; spring) (will soon be BIOL 36600)
BIOL 39500 <sup>2</sup>	Macromolecules (3 cr.; fall)
AGRY 32100	Genetics Laboratory (3 cr.; both)

<sup>1</sup> If both BIOL 30100 and 30200 are completed, they will meet the requirements for Parts III and IV of the minor. BIOL 30100 or 30200 alone will not meet any requirement for the minor.

<sup>2</sup> Any one of BIOL 39500 (Principles of Physiology) or BIOL 39500 (Developmental Biology) or BIOL 39500 (Macromolecules) alone will meet the requirements for Parts III and IV of the minor.