

**REQUIREMENTS FOR THE BACHELOR OF SCIENCE**  
**DODGE FAMILY COLLEGE OF ARTS AND SCIENCES**  
**THE UNIVERSITY OF OKLAHOMA**

Academic Year
For Students Entering the Oklahoma State System for Higher Education Summer 2025 through Spring 2026

General Requirements	
Minimum Total Credit Hours .....	120
Minimum Upper-Division Hours .....	48
Major Hours .....	36-39
<b>Minimum Retention/Graduation Grade Point Averages:</b>	
Overall - Combined and OU .....	2.00
Major - Combined and OU .....	2.00

Program
<b>Biology: Ecology, Evolution, and Organismal Biology</b>
<b>B105 P205</b>
Bachelor of Science

OU encourages students to complete at least 30 hours of applicable coursework each year to have the opportunity to graduate in 4 years.

**GENERAL EDUCATION AND COLLEGE REQUIREMENTS**

Courses for fulfillment of General Education and Dodge College of Arts & Sciences requirements must be from the approved General Education course list published in the Class Schedule or at <http://www.ou.edu/gened/courses>. **Courses graded P/NP will not apply.**

**UNIVERSITY-WIDE GENERAL EDUCATION (MINIMUM 40 HOURS)**

Code	Title	Credit Hours
<b>Core Area I: Symbolic and Oral Communication</b>		
<i>English Composition (6 hours)</i>		
ENGL 1113	Principles of English Composition	3
ENGL 1213 or EXPO 1213	Principles of English Composition Expository Writing	3
<i>Language (0-13 hours in the same language)</i>		
The college requirement cannot be met by high school coursework.		
	Beginning Course	0-5
	Beginning Course, continued	0-5
	Intermediate Course (2000 level) <sup>1,2</sup>	0-3
<i>Mathematics (3 hours)</i>		
	Choose one course from the General Education Mathematics list	3
<b>Core Area II: Natural Science (7 hours, including one laboratory component)</b>		
<i>Biological Science</i>		
	Choose an approved General Education Natural Science course with one of the following prefixes: BIOL, HES, MBIO, or PBIO <sup>1</sup>	3-4
<i>Physical Science</i>		
	Choose an approved General Education Natural Science course with one of the following prefixes: AGSC, ASTR, CHEM, GEOG, GEOL, GPHY, METR, or PHYS <sup>1</sup>	3-4
<b>Core Area III: Social Science (6 hours)</b>		
P SC 1113	American Federal Government	3
	Choose one course from the General Education Social Science list	3
<b>Core Area IV: Arts and Humanities (18 hours)</b>		
<i>Artistic Forms</i>		
	Choose one course from the General Education Artistic Forms list	3
<i>Western Culture</i>		
HIST 1483 or HIST 1493	United States to 1865 United States, 1865 to the Present	3
	Choose one course from the General Education Western Culture list (excluding HIST 1483/1493)	3
<i>World Culture</i>		
	Choose one course from the General Education World Culture list	3
<i>Additional Core IV Upper-Division Arts &amp; Humanities courses</i>		
	Choose one course from Artistic Forms, Western Culture, or World Culture <sup>1,3</sup>	3
	Choose one course from Artistic Forms, Western Culture, or World Culture <sup>1,3</sup>	3
<b>Core Area V: First Year Experience (3 hours)</b>		
	Choose one course	3
<b>Total Credit Hours</b>		<b>56</b>

- College of Arts and Sciences Requirements: college requirements are not automatically fulfilled by a previous degree.
- One course at the intermediate level or demonstrated competency at that level
- 6 upper-division hours, 2 courses, at the 3000- 4000-level. **Must be outside the major.**

**FREE ELECTIVES**

Electives to bring total applicable hours to the minimum total required for the degree including 48 upper-division hours.

**MAJOR REQUIREMENTS**

- Some courses required for the major may also fulfill University General Education and/or Dodge College of Arts & Sciences Requirements
- Thirty-six to Thirty-nine hours of major coursework must be completed, exclusive of BIOL 1003, BIOL 1005, BIOL 1013, BIOL 1114, BIOL 1121, BIOL 1203, BIOL 2124, BIOL 2234, and BIOL 2255.
- A grade of C or better must be earned in each course counted for major and major support credit.

Code	Title	Credit Hours
<b>Biology Core</b>		
BIOL 1111	Perspectives and Professional Skills in the Biological Sciences	1
BIOL 1124	Intro Biol: Molecule/Cell/Phys	4
BIOL 1134	Introductory Biology: Evolution, Ecology and Diversity	4
BIOL 2913	Intro to Quantitative Biology	3
BIOL 3013	Evolution	3
BIOL 3333	Genetics	3
<b>Total Credit Hours</b>		<b>18</b>

**ECOLOGY, EVOLUTION, AND ORGANISMAL BIOLOGY CONCENTRATION (18-21 HOURS)**

Code	Title	Credit Hours
<b>Required Course</b>		
BIOL 3403	Principles of Ecology	3
<b>Electives <sup>1</sup></b>		
	Choose 3 hours of Ecology electives from the approved list.	3
	Choose 3 hours of Evolution electives from the approved list.	3
	Choose 9-12 hours from the approved elective list, with at least one course from each of the following elective groups to include 2 labs:	9-12
	Plant Organismal Biology	
	Animal Organismal Biology	
	Applied Organismal Biology	
<b>Total Credit Hours</b>		<b>18-21</b>

- Approved elective lists will be maintained by the department. Electives to be chosen in consultation with departmental advisor; must include two upper-division laboratory courses. (Independent study, honors reading or honors research cannot count toward laboratory course requirements.)

**MAJOR SUPPORT REQUIREMENTS**

Code	Title	Credit Hours
<b>Chemistry</b>		
CHEM 1315	General Chemistry	5
CHEM 1415	General Chemistry (Continued)	5
CHEM 3053	Organic Chemistry I: Biological Emphasis	3
CHEM 3152	Organic Chemistry Laboratory: Biological Emphasis	2
<b>Physics</b>		
	Choose one of the following:	8
PHYS 2414 & PHYS 2424	General Physics for Life Science Oriented Majors and General Physics for Life Science Oriented Majors	
or		
PHYS 2514 & PHYS 2524	General Physics for Engineering and Science Majors and General Physics for Engineering and Science Majors	
<b>Math <sup>1</sup></b>		
MATH 1743 or MATH 1823	Calculus I for Business, Life and Social Sciences Calculus and Analytic Geometry I	3
<b>Total Credit Hours</b>		<b>26</b>

- MATH 1914 will also count toward satisfying the Math major support course requirement.

More information in the catalog: (<http://ou-public.courseleaf.com/dodge-arts-sciences/biological-sciences/biology-ecology-evolution-organismal-biology-bachelor-science/>).

**SUGGESTED SEMESTER PLAN OF STUDY**

This plan shows one possible grouping of courses that would allow students to graduate in four years. Please refer to the front of the degree checksheet for official requirements. Students must consult with Dodge College of Arts and Sciences and/or Department of Biology academic advisors to verify that courses selected each semester fulfill the recommended plan and satisfy University, College of Arts and Sciences, and Biology major requirements.

Year	FIRST SEMESTER	Hours	SECOND SEMESTER	Hours		
FRESHMAN	ENGL 1113	Principles of English Composition ( Core I )	3	CHEM 1315	General Chemistry	5
	HIST 1483 or HIST 1493	United States to 1865 ( Core IV ) or United States, 1865 to the Present	3	ENGL 1213 or EXPO 1213	Principles of English Composition ( Core I ) or Expository Writing	3
	BIOL 1124	Intro Biol: Molecule/Cell/Phys	4	MATH 1743 or MATH 1823	Calculus I for Business, Life and Social Sciences or Calculus and Analytic Geometry I	3
		MATH (Core I)	3	BIOL 1134	Introductory Biology: Evolution, Ecology and Diversity	4
		First Year Experience (Core V)	3	BIOL 1111	Perspectives and Professional Skills in the Biological Sciences	1
		<b>CREDIT HOURS</b>	<b>16</b>	<b>CREDIT HOURS</b>	<b>16</b>	
SOPHOMORE	CHEM 1415	General Chemistry (Continued)	5	CHEM 3053	Organic Chemistry I: Biological Emphasis	3
	PHYS 2414 or PHYS 2514	General Physics for Life Science Oriented Majors or General Physics for Engineering and Science Majors	4	PHYS 2424 or PHYS 2524	General Physics for Life Science Oriented Majors or General Physics for Engineering and Science Majors	4
	BIOL 3013	Evolution	3		Beginning Language (Core I)	5
	P SC 1113	American Federal Government ( Core III )	3	BIOL 2913	Intro to Quantitative Biology	3
		<b>CREDIT HOURS</b>	<b>15</b>	<b>CREDIT HOURS</b>	<b>15</b>	
JUNIOR	CHEM 3152	Organic Chemistry Laboratory: Biological Emphasis	2		Intermediate Language	3
	BIOL 3333	Genetics	3		World Culture (Core IV)	3
	BIOL 3403	Principles of Ecology	3		Evolution Elective	3
		Ecology Elective	3		Concentration Elective <sup>1</sup>	3-4
		Beginning Language continued (Core I)	5		Concentration Elective <sup>1</sup>	3-4
	<b>CREDIT HOURS</b>	<b>16</b>	<b>CREDIT HOURS</b>	<b>15</b>		
SENIOR		Arts & Humanities, upper-division (3000-4000-level) outside major (Gen.Ed.)	3		Artistic Forms (Core IV)	3
		Western Culture (Core IV)	3		Social Science (Core III)	3
		Concentration Elective <sup>1</sup>	3-4		Arts & Humanities, upper-division (3000-4000-level) outside major (Gen.Ed.)	3
		Free Elective, upper-division (3000-4000-level)	3		Choose one of the following elective options:	3-4
		Free Elective, upper-division (3000-4000-level)	3		Concentration Elective (3-4 hours) <sup>1</sup>	
					Free Elective (3 hours, upper-division, 3000-4000 level)	
	<b>CREDIT HOURS</b>	<b>15</b>	<b>CREDIT HOURS</b>	<b>12</b>		

<sup>1</sup> Concentration Electives (9-12 hours) with at least one course from each of the following elective groups to include 2 labs: Plant Organismal Biology, Animal Organismal Biology, and Applied Organismal Biology. Approved elective lists will be maintained by the department. Electives to be chosen in consultation with departmental advisor; must include two upper-division laboratory courses. (Independent study, honors reading or honors research cannot count toward laboratory course requirements.)