

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

For Students Entering the Oklahoma State System for Higher Education:

**Summer 2018 through
Spring 2019**

Minimum Credit Hours and Grade Point Averages Required			
Total Hours —	120	Upper-Division Within Total	48
Major Hours —	36		
Grade Point Averages:			
Overall & Major: Combined OU/Transfer - 2.00 OU - 2.00			
48 Upper-Division Hours REQUIRED			

Biology

B105

Bachelor of Science

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

GENERAL EDUCATION AND COLLEGE REQUIREMENTS Courses graded P/NP will not apply.	Some courses required for the major may also fulfill University General Education and/or College of Arts & Sciences Requirements		
	MAJOR REQUIREMENTS	MAJOR SUPPORT REQUIREMENTS	
<p>Courses for fulfillment of General Education and 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/enrollment/home/</p> <p style="text-align: center;">University-Wide General Education (minimum 40 hours) and College of Arts and Sciences Requirements</p> <p>Core Area I: Symbolic and Oral Communication (9-22 hours, 3-6 courses)</p> <p>a. English Composition (6 hours, 2 courses)</p> <ol style="list-style-type: none"> 1. English 1113, Principles of English Composition 2. English 1213, Principles of English Composition, or EXPO 1213, Expository Writing <p>b. Foreign Language (0-13 hours in the same language) The College of Arts and Sciences requirement <i>cannot be met by high school coursework</i>.</p> <ol style="list-style-type: none"> 1. Beginning Course (0-5 hours) _____ 2. Beginning Course, continued (0-5 hours) _____ <p>• 3. Intermediate Course (2000 level, 0-3 hours). _____ One course at the intermediate level or demonstrated competency at that level.</p> <p>c. Mathematics (3 hours, 1 course). _____</p> <p>Core Area II: Natural Science (7 hours, 2 courses) including one laboratory component.</p> <p>• 1. Biological Science _____ Chosen from the following approved General Education designators: BIOL, HES, MBIO, or PBIO.</p> <p>• 2. Physical Science _____ Chosen from the following approved General Education designators: AGSC, ASTR, CHEM, GEOG, GEOL, GPHY, METR, or PHYS.</p> <p>Core Area III: Social Science (6 hours, 2 courses)</p> <ol style="list-style-type: none"> 1. Political Science 1113, American Federal Government 2. _____ <p>Core Area IV: Humanities (18 hours, 6 courses)</p> <p>a: Understanding Artistic Forms (3 hours, 1 course) _____</p> <p>b. Western Civilization and Culture (6 hours, 2 courses)</p> <ol style="list-style-type: none"> 1. History 1483, U.S., 1492-1865, or History 1493, U.S., 1865-Present, 2. _____ (excluding HIST 1483 and 1493) <p>c. Non-Western Culture (3 hours, 1 course): _____</p> <p>d. Additional Core IV Humanities courses (6 upper-division hours, 2 courses at the 3000- 4000-level). Must be outside the major and selected from Understanding Artistic Forms, Western Civilization and Culture, or Non-Western Culture.</p> <p>• 1. _____</p> <p>• 2. _____</p> <p>Core Area V: Senior Capstone Experience (3 hours, 1 course) _____</p> <p>• College of Arts and Sciences Requirements: College requirements are not automatically fulfilled by a previous degree.</p>	<p>BIOLOGY</p> <p>1124 Introductory Biology: Molecules, Cells, and Physiology 4</p> <p>1134 Introductory Biology: Evolution, Ecology & Diversity 4</p> <p>2013 Evolution 3</p> <p>3333 Genetics 3</p> <p>4983 Senior Seminar (Capstone) 3</p> <p>Electives — (16 hours) to be chosen in consultation with departmental adviser; must include two upper-division laboratory courses. (Independent study, honors reading or honors research cannot count toward laboratory course requirements.)</p> <p>_____ 3-4</p> <p>_____ 3-4</p> <p>_____ 3-4</p> <p>_____ 3-4</p> <p>_____ 0-3</p> <p>_____ 4</p> <p>_____ 4</p> <p>STATISTICS: 1 of the following: PSY 2113 Res. Methods I: Statistics BIOL 2913 Intro. to Quant. Method in Biology BIOL 4913 Quantitative Biology</p> <p>_____ 3</p>	<p>CHEMISTRY</p> <p>1315 General Chemistry 5</p> <p>1415 General Chemistry continued 5</p> <p>3053 Organic Chemistry, and 3152 Organic Chemistry Lab, and 3153 Organic Chemistry, or 3653 Biochemistry</p> <p>_____ 3</p> <p>_____ 2</p> <p>_____ 3</p> <p>HISTORY OF SCIENCE (fulfills 1 of 2 upper-division College Western Civ., IV)</p> <p>3013 Hist. of Sci. to Newton, or 3023 Hist. of Sci. since 17th Cent., or An approved course in the ethics of biology or medicine chosen in consultation with departmental adviser</p> <p>_____ 3</p> <p>PHYSICS</p> <p>2414 Gen. Physics for Life Science, and 2424 Gen. Physics for Life Science or 2514 Gen. Physics for Engr. & Sci., and 2524 Gen. Physics for Engr. & Sci.</p> <p>_____ 4</p> <p>_____ 4</p> <p>MATH</p> <p>1743 Calc. I for Bus., Life & Soc. Sci. or, 1823 Calculus & Analytic Geometry I</p> <p>_____ 3</p>	<p style="text-align: center;">Free Electives</p> <p>Electives to bring total applicable hours to 120 including 48 upper-division hours.</p>

INFORMATION CONCERNING GENERAL RULES, REGULATIONS AND MINIMUM REQUIREMENTS

TOTAL HOURS: A minimum of 120 semester hours acceptable toward graduation must be completed.

UPPER-DIVISION HOURS: A minimum of 48 upper-division semester hours acceptable toward graduation must be completed. OU courses numbered 3000 or above are upper-division. Transfer work is counted as lower-division or upper-division credit depending on the level at which it was offered at the institution where it was earned. Two-year college work is accepted only as lower-division credit.

ARTS AND SCIENCES HOURS: At least 80 semester hours of liberal arts and sciences courses are required for a BA degree. At least 55 semester hours of liberal arts and sciences courses are required for a BS degree.

MAJOR WORK: A minimum of 30 semester hours must be earned in the major, including a minimum of 15 credit hours at the upper-division level.

PASS/NO PASS ENROLLMENT: A maximum of 16 semester hours of free elective credit may be attempted under this option.

INDIVIDUAL STUDIES (e.g., courses titled "Independent Study"): A maximum of 12 total semester hours may be counted toward graduation, excluding Honors Reading and Honors Research.

P.E. COURSES: No physical education activity courses will be counted toward the 120 semester hours of acceptable credit for graduation.

SENIOR INSTITUTION HOURS: A minimum of 60 semester hours applied toward graduation must be earned at senior (4-year) institutions.

RESIDENCY:

- At least 15 of the final 30 hours applied toward the degree or at least 50 percent of the hours required by the institution in the major field must be satisfactorily completed at the awarding institution.
- At least 15 semester hours of upper-division major work must be completed in residence at OU.
- OU correspondence courses are *not* considered resident credit.
- Credits earned via examination are neither resident nor nonresident credit.

GRADEPOINT AVERAGES: Students must earn a minimum overall 2.00 for each of the following: Combined Retention GPA (all college grades), OU Retention GPA, GPA for all major courses, and GPA for all major courses taken at OU. Some schools and departments of the College have higher minimum grade point averages required for their students.

SPECIAL DEGREES: Students may qualify for an Honors degree (cum Laude, Magna cum Laude, or Summa cum Laude) by completing specific requirements of the Honors College. A degree will be earned with Distinction if the student completes at least 60 semester hours at OU with at least a 3.60 combined retention GPA and OU retention GPA. A degree will be earned with Special Distinction if the student completes at least 60 semester hours at OU with at least a 3.90 combined retention GPA and OU retention GPA.

APPLICATION FOR GRADUATION: Students must apply for graduation during the term in which they complete their degree requirements in order to graduate in that term.

The graduation application is available on line on your Ozone site. Deadlines for the OU Graduation Application are: **March 1** for Spring certification and the University of Oklahoma Commencement book; **July 1** for Summer graduation certification; and, **October 1** for Fall graduation certification.

Refer to the OU General Catalog for more complete information.

Suggested Semester Plan of Study — Biology - B105

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 checklist for official requirements. Students must consult with College of Arts and Sciences and/or Department of Biology academic advisers 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, United States 1492-1865, or 1493, United States 1865-Present (Core IV)	3	ENGL 1213, Principles of English Composition (Core I), or EXPO 1213, Expository Writing (Core I)	3
	MATH 1523, Precalculus & Trigonometry (Core I)	3	MATH 1743, Calculus I for Business, Life & Social Sciences, or	3
	P SC 1113, American Federal Government (Core III)	3	1823, Calculus and Analytic Geometry I	
	BIOL 1124, Introductory Biology: Molecules, Cells, & Physiology	4	BIOL 1134, Introductory Biology: Evolution, Ecology, & Diversity	4
	TOTAL CREDIT HOURS	16		TOTAL CREDIT HOURS
SOPHOMORE	CHEM 1415, General Chemistry cont.	5	CHEM 3053, Organic Chemistry	3
	PHYS 2414, General Physics for Life Sciences, or 2514, General Physics for Engineering & Science Majors	4	PHYS 2424, General Physics for Life Sciences, or 2524, General Physics for Engineering & Science Majors	4
	BIOL 2013, Evolution	3	Statistics Requirement	3
	Understanding Artistic Forms (Core IV)	3	Beginning Foreign Language (Core I)	5
	TOTAL CREDIT HOURS	15		TOTAL CREDIT HOURS
JUNIOR	CHEM 3153, Organic Chemistry, or CHEM 3653, Biochemistry	3	HSCI 3013, History of Science to Newton, or 3023, History of Science since 17 th Century, or An approved Ethics course	3
	CHEM 3152, Organic Chemistry Lab	2	Intermediate Foreign Language	3
	BIOL 3333, Genetics	3	Non-Western Culture (Core IV)	3
	Beginning Foreign Language continued (Core I)	5	BIOL Major Group Requirement, upper-division (3000-4000-level)	3-4
	Free Elective, upper-division (3000-4000-level)	3	BIOL Major Group Requirement with Lab, upper-division (3000-4000-level)	3-4
	TOTAL CREDIT HOURS	16		TOTAL CREDIT HOURS
SENIOR	BIOL Major Group Requirement, upper-division (3000-4000-level)	3-4	BIOL 4983, Senior Seminar (Capstone) BIOL	3
	BIOL Major Group Requirement with Lab, upper-division (3000-4000-level)	3-4	Major Group Requirement	0-4
	Humanities, upper-division (3000-4000-level), outside major (Gen. Ed.)	3	Social Science (Core III)	3
	Western Civilization & Culture (Core IV)	3	Free Electives, upper-division (3000-4000-level)	9
	Free Elective, upper-division (3000-4000-level)	4		
TOTAL CREDIT HOURS	16-18		TOTAL CREDIT HOURS	15-19

Bachelor's degrees require a minimum of 48 hours of upper-division (3000-4000) coursework.

This plan of study should not be used in lieu of academic advisement.

Students who transfer from other institutions (particularly community colleges) must verify credit hour and course requirements with their college academic counselor, ELLH 124, 325-4411, <http://ou.edu/cas>. Please make an appointment for a degree check with your college academic counselor once you have earned 90 hours. Appointments may be scheduled at iAdvise.ou.edu.