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

| Academic Year |
| :---: |
|  |
| For Students Entering the Oklahoma |
| State System for Higher Education |
| Summer 2023 through Spring 2024 |
|  |


| General Requirements |  |
| :---: | :---: |
| Minimum Total Credit Hours .... |  |
| Minimum Upper-Division Hours | 48 |
| Major Hours ... | 33 |
| Minimum Retention/Graduation Grade Point Averages: |  |
| Overall - Combined and OU | 2.00 |
| Major - Combined and OU . | 2.00 |


| Program |
| :---: |
| 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 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) AND COLLEGE REQUIREMENTS



Core Area I: Symbolic and Oral Communication
English Composition (6 hours)
ENGL 1113 Principles of English Composition
Credit Hours

ENGL 1213 Principles of English Composition 3
or EXPO 1213 Expository Writing
Language (0-13 hours in the same language)
The college requirement cannot be met by high school coursework.
Beginning Course
Beginning Course, continued
Intermediate Course (2000 level) ${ }^{1,2}$
Mathematics (3 hours)
Choose one course from the General Education Mathematics list
Core Area II: Natural Science (7 hours, including one laboratory component)
Biological Science
Choose an approved General Education Natural Science course with one of the
following prefixes: BIOL, HES, MBIO, or PBIO ${ }^{1}$
Physical Science
Choose an approved General Education Natural Science course with one of the
following prefixes: AGSC, ASTR, CHEM, GEOG, GEOL, GPHY, METR, or PHYS ${ }^{1}$
Core Area III: Social Science (6 hours)
P SC 1113 American Federal Government 3
Choose one course from the General Education Social Science list 3
Core Area IV: Arts and Humanities (18 hours)
Artistic Forms
Choose one course from the General Education Artistic Forms list
Western Culture
HIST $1483 \quad$ United States to 1865
or HIST 1493 United States, 1865 to the Present
Choose one course from the General Education Western Culture list (excluding 3
HIST 1483/1493)
World Culture
Choose one course from the General Education World Culture list
Additional Core IV Upper-Division Arts \& Humanities courses
Choose one course from Artistic Forms, Western Culture, or World Culture ${ }^{1,3}$
Choose one course from Artistic Forms, Western Culture, or World Culture ${ }^{1,3} 3$

Core Area V: First Year Experience (3 hours)
Choose one course
Total Credit Hours
56

1College of Arts and Sciences Requirements: college requirements are not automatically fulfilled by a previous degree.
2One course at the intermediate level or demonstrated competency at that level
36 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 hours of major coursework must be completed,exclusive of BIOL 1003, BIOL 1005, BIOL 1013, BIOL 1114, BIOL 1121, BIOL 1203, BIOL 2103, BIOL 2124, BIOL 2234, and BIOL 2255.
- A grade of $\mathbf{C}$ or better must be earned in each course counted for major and major support credit.

| Code | Title | Credit Hours |
| :--- | :--- | ---: |
| Biology |  |  |
| BIOL 1124 | Intro Biol: Molecule/Cell/Phys | 4 |
| BIOL 1134 | Introductory Biology: Evolution, Ecology and Diversity | 4 |
| BIOL 3013 | Evolution | 3 |
| BIOL 3333 | Genetics | 3 |
| Electives |  | 16 |
| Choose 16 hours ${ }^{1}$ |  |  |
| Statistics |  |  |
| Choose one of the following: |  |  |
| PSY 2003 | Understanding Statistics |  |
| BIOL 2913 | Intro to Quantitative Biology |  |
| BIOL 4913 | Quantitative Biology |  |
| ECON 2843 | Elements of Statistics | $\mathbf{3 3}$ |
| Total Credit Hours |  |  |

1Electives - (16 hours) 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

Title Credit Hours
Chemistry
CHEM 1315 General Chemistry 5
CHEM 1415 General Chemistry (Continued) 5
CHEM $3053 \quad$ Organic Chemistry I: Biological Emphasis 3
CHEM $3152 \quad$ Organic Chemistry Laboratory: Biological Emphasis 2
CHEM $3153 \quad$ Organic Chemistry II: Biological Emphasis 3
or CHEM 3653 Introduction to Biochemistry
History of Science, Technology \& Medicine
Choose one of the following:
HSTM 3013 History of Science to the Age of Newton
HSTM 3023 History of Science Since the Seventeenth Century
An approved HSTM course chosen from the list maintained by the Department of Biology
Physics
Choose one of the following:
PHYS $2414 \quad$ General Physics for Life Science Oriented Majors
\& PHYS 2424 and General Physics for Life Science Oriented Majors
PHYS 2514 General Physics for Engineering and Science Majors
\& PHYS 2524 and General Physics for Engineering and Science Majors
Math
MATH 1743 Calculus I for Business, Life and Social Sciences
Calculus and Analytic Geometry I
Total Credit Hours

## INFORMATION CONCERNING GENERAL RULES, REGULATIONS AND MINIMUM REQUIREMENTS

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.
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.

Grade Point Averages: Students must earn a minimum over all 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.

## 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 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 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 <br> EXPO 1213 | Principles of English Composition ( Core I ) or Expository Writing | 3 |
|  | MATH 1523 | Precalculus and Trigonometry ( Core I ) | 3 | MATH 1743 or <br> MATH 1823 | Calculus I for Business, Life and Social Sciences or Calculus and Analytic Geometry I | 3 |
|  | BIOL 1124 | Intro Biol: Molecule/Cell/Phys | 4 | BIOL 1134 | Introductory Biology: Evolution, Ecology and Diversity | 4 |
|  |  | First Year Experience (Core V) | 3 |  |  |  |
|  |  | CREDIT HOURS | 16 |  | CREDIT HOURS | 15 |
|  | CHEM 1415 | General Chemistry (Continued) | 5 | CHEM 3053 | Organic Chemistry I: Biological Emphasis | 3 |
|  | PHYS 2414 or <br> PHYS 2514 | General Physics for Life Science Oriented Majors or General Physics for Engineering and Science Majors | 4 | PHYS 2424 or <br> PHYS 2524 | General Physics for Life Science Oriented Majors or General Physics for Engineering and Science Majors | 4 |
|  | BIOL 3013 | Evolution | 3 |  | Statistics Requirement | 3 |
|  | P SC 1113 | American Federal Government ( Core III ) | 3 |  | Beginning Language (Core I) | 5 |
|  |  | CREDIT HOURS | 15 |  | CREDIT HOURS | 15 |
| $\begin{aligned} & \text { N } \\ & 0 \\ & 2 \\ & 0 \end{aligned}$ | CHEM 3153 or CHEM 3653 | Organic Chemistry II: Biological Emphasis or Introduction to Biochemistry | 3 | HSTM 3013 or HSTM 3023 | History of Science to the Age of Newton or History of Science Since the Seventeenth Century | 3 |
|  | CHEM 3152 | Organic Chemistry Laboratory: Biological Emphasis | 2 |  | Intermediate Language | 3 |
|  | BIOL 3333 | Genetics | 3 |  | World Culture (Core IV) | 3 |
|  |  | Beginning Language continued (Core I) | 5 |  | BIOL Major Group Requirement, upper-division (3000-4000-level) | 3 |
|  |  | Free Elective, upper-division (3000-4000-level) | 3 |  | BIOL Major Group Requirement with Lab, upper-division (3000-4000-level) | 4 |
|  |  | CREDIT HOURS | 16 |  | CREDIT HOURS | 16 |
| $\begin{aligned} & \text { N } \\ & \text { Z } \\ & \text { Z/山 } \end{aligned}$ |  | BIOL Major Group Requirement, upper-division (3000-4000-level) | 3 |  | Major Group Requirement, upper-division (3000-4000level) | 3 |
|  |  | BIOL Major Group Requirement with Lab, upper-division (3000-4000-level) | 3 |  | Artistic Forms (Core IV) | 3 |
|  |  | Arts \& Humanities, upper-division (3000-4000-level) outside major (Gen.Ed.) | 3 |  | Social Science (Core III) | 3 |
|  |  | Western Culture (Core IV) | 3 |  | Free Electives, upper-division (3000-4000-level) | 3 |
|  |  | Free Elective, upper-division (3000-4000-level) | 3 |  |  |  |
|  |  | CREDIT HOURS | 15 |  | CREDIT HOURS | 12 |

