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 2024 through Spring 2025

| General Requirements | |
|--|------|
| Minimum Total Credit Hours | 120 |
| Minimum Upper-Division Hours | 48 |
| Najor Hours | . 37 |
| Ainimum Retention/Graduation Grade Point Averages: | |
| Overall - Combined and OU | 2.00 |
| Лаjor - Combined and OU | 2.00 |
| | |

| Program | |
|--------------------------|--|
| | |
| Chemistry (Professional) | |
| B175 | |
| 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

| English Composition (6 hours) ENGL 1113 Principles of English Composition ENGL 1213 Principles of English Composition 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 o-5 Intermediate Course (2000 level) ^{1,2} O-3 Mathematics (3 hours) Choose one course from the General Education Mathematics list 3 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: 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 Artistic Forms SCHOOSE one course from the General Education Artistic Forms list Western Culture HIST 1483 United States to 1865 or HIST 1493 United States, 1865 to the Present Choose one course from the General Education Western Culture list (excluding 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} 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} 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} Choose one course from Artistic Forms, Western Culture, or World Culture ^{1,4} Choose one course | Code | Title | Credit Hours |
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| 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 3 | Additional Core IV U | pper-Division Arts & Humanities courses | |
| Core Area V: First Year Experience (3 hours) Choose one course 3 | Choose one course from | om Artistic Forms, Western Culture, or World Culture 1,3 | 3 |
| Choose one course 3 | Choose one course fr | om Artistic Forms, Western Culture, or World Culture ^{1,3} | 3 |
| | Core Area V: First Y | ear Experience (3 hours) | |
| Total Credit Hours 56 | Choose one course | | 3 |
| | Total Credit Hours | | 56 |

- 1 College of Arts and Sciences Requirements: college requirements are not automatically fulfilled by a previous degree.
- 2 One course at the intermediate level or demonstrated competency at that level
- $^{3}\,\,$ 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.
- A grade of C or better must be earned in each Chemistry course presented for major credit.
 No grade below a C made in a Chemistry course at OU may be made up elsewhere without prior written approval by the OU Chemistry Department.
- The introductory courses (CHEM 1315, CHEM 1335, CHEM 1415, CHEM 1425, & CHEM 1435) do not count towards the 37 required major hours.

| Code | Title | Credit Hours |
|---------------------------|--|--------------|
| Chemistry | | |
| CHEM 1315 | General Chemistry | |
| or CHEM 1335 | General Chemistry I: Signature Course | |
| Choose one of the fe | ollowing: | |
| CHEM 1415 | General Chemistry (Continued) | |
| CHEM 1425 | Advanced General Chemistry (HONORS) | |
| CHEM 1435 | General Chemistry II: Signature Course | |
| CHEM 3064 | Organic Chemistry I | 4 |
| CHEM 3164 | Organic Chemistry II | 4 |
| CHEM 3005 | Quantitative Analysis | 5 |
| CHEM 3421 | Physical Chemistry Laboratory | 1 |
| CHEM 3423 | Physical Chemistry I | 3 |
| CHEM 3521 | Physical Chemistry Laboratory | 1 |
| CHEM 3523 | Physical Chemistry II | 3 |
| CHEM 4023 | Instrumental Methods of Chemical Analysis | 3 |
| CHEM 4033 | Instrumental Methods of Chemical Analysis Laboratory | 3 |
| CHEM 4333 | Advanced Inorganic Chemistry-Periodic System | 3 |
| CHEM 4444 | Advanced Synthesis and Spectral Characterization | 4 |
| CHEM 3653 | Introduction to Biochemistry | 3 |
| Total Credit Hours | | 37 |

MAJOR SUPPORT REQUIREMENTS

| MAJOR SUPPORT REQUIREMENTS | | | |
|----------------------------|---|--------------|--|
| Code | Title | Credit Hours | |
| Math | | | |
| Select one of the follow | ing pairs: | 6-8 | |
| MATH 1823 & MATH 2423 | Calculus and Analytic Geometry I and Calculus and Analytic Geometry II | | |
| MATH 1914 & MATH 2924 | Differential and Integral Calculus I and Differential and Integral Calculus II | | |
| Physics | | | |
| Choose one of the follo | wing groups: | 10 | |
| Group A: | | | |
| PHYS 2414 & PHYS 1311 | General Physics for Life Science Oriented Majors and General Physics Lab I | | |
| PHYS 2424 & PHYS 1321 | General Physics for Life Science Oriented Majors and General Physics Lab II | | |
| Group B: | | | |
| PHYS 2514 & PHYS 1311 | General Physics for Engineering and Science Majors and General Physics Lab I | | |
| PHYS 2524 & PHYS 1321 | General Physics for Engineering and Science Majors and General Physics Lab II | | |

More information in the catalog: (http://ou-public.courseleaf.com/dodge-arts-sciences/chemistry-biochemistry/chemistry-professional-bachelor-science/).

16-18

Total Credit Hours

2

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 BA

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 Chemistry and Biochemistry academic advisors to verify that courses selected each semester fulfill the recommended plan and satisfy University, College of Arts and Sciences, and Chemistry and Biochemistry major requirements.

| Year | | FIRST SEMESTER | Hours | | SECOND SEMESTER | Hours |
|-----------|---------------------------|---|-------|---------------------------|---|-------|
| FRESHMAN | CHEM 1315 or CHEM 1335 | General Chemistry or General Chemistry I: Signature Course | 5 | | Choose one of the following: | 5 |
| | ENGL 1113 | Principles of English Composition (Core I) | 3 | CHEM 1415 | General Chemistry (Continued) | |
| | MATH 1823 or MATH 1914 | Calculus and Analytic Geometry I (Core I) or Differential and Integral Calculus I | 3-4 | CHEM 1425 | Advanced General Chemistry (HONORS) | |
| | | First Year Experience (Core V) | 3 | CHEM 1435 | General Chemistry II: Signature Course | |
| | | | | ENGL 1213 or EXPO 1213 | Principles of English Composition (Core I) or Expository Writing | 3 |
| | | | | MATH 2423 or MATH 2924 | Calculus and Analytic Geometry II or Differential and Integral Calculus II | 3-4 |
| | | | | | Artistic Forms (Core IV) | 3 |
| | | CREDIT HOURS | 14 | | CREDIT HOURS | 14 |
| | CHEM 3064 | Organic Chemistry I | 4 | CHEM 3005 | Quantitative Analysis | 5 |
| SOPHOMORE | PHYS 2514 or PHYS 2414 | General Physics for Engineering and Science Majors or General Physics for Life Science Oriented Majors | 4 | CHEM 3164 | Organic Chemistry II | 4 |
| | PHYS 1311 | General Physics Lab I | 1 | PHYS 2524 or PHYS 2424 | General Physics for Engineering and Science Majors or General Physics for Life Science Oriented Majors | 4 |
| ЬНС | | Biological Science without lab (Core II) | 3 | PHYS 1321 | General Physics Lab II | 1 |
| los l | HIST 1483 or HIST 1493 | United States to 1865 (Core IV) or United States, 1865 to the Present | 3 | | World Culture (Core IV) | 3 |
| | | CREDIT HOURS | 15 | | CREDIT HOURS | 17 |
| | CHEM 3421 | Physical Chemistry Laboratory | 1 | CHEM 3521 | Physical Chemistry Laboratory | 1 |
| | CHEM 3423 | Physical Chemistry I | 3 | CHEM 3523 | Physical Chemistry II | 3 |
| JUNIOR | CHEM 4023 | Instrumental Methods of Chemical Analysis | 3 | CHEM 4033 | Instrumental Methods of Chemical Analysis Laboratory | 3 |
| <u> </u> | | Western Culture (Core IV) | 3 | P SC 1113 | American Federal Government (Core III) | 3 |
| <u> </u> | | Beginning Language (Core I) | 5 | | Beginning Language continued (Core I) | 5 |
| | | CREDIT HOURS | 15 | | CREDIT HOURS | 15 |
| SENIOR | CHEM 3653 | Introduction to Biochemistry | 3 | | Social Science (Core III) | 3 |
| | CHEM 4333 | Advanced Inorganic Chemistry-Periodic System | 3 | | Arts & Humanities, upper-division, outside major (Gen. Ed.) | 3 |
| | CHEM 4444 | Advanced Synthesis and Spectral Characterization | 4 | | Free Elective, upper-division (3000-4000-level) | 2 |
| | | Arts & Humanities, upper-division, outside major (Gen. Ed.) | 3 | | Free Elective, lower- or upper-division | 3 |
| | | Intermediate Language | 3 | | Free Elective, lower- or upper-division | 3 |
| | | CREDIT HOURS | 16 | | CREDIT HOURS | 14 |

CHEM 4913, CHEM 4923, and CHEM 4933 are not all offered every semester. Students should plan accordingly.