### University-Wide General Education (minimum 40 hours) and College of Arts and Sciences Requirements

#### Core Area I: Symbolic and Oral Communication (9-22 hours, 3-6 courses)
- English Composition (6 hours, 2 courses)
  1. English 1113, Principles of English Composition
  2. English 1213, Principles of English Composition, or EXPO 1213, Expository Writing

#### Core Area II: Natural Science (7 hours, 2 courses) including one laboratory component.
- Biological Science
  - Chosen from the following approved General Education designators: BIOL, BOT, CHEM, GEOG, HES, MBIO, or ZOO.
- Physical Science
  - Chosen from the following approved General Education designators: ACSC, ASTR, CHEM, GEOG, GEOI, GPHY, METR, or PHYS.

#### Core Area III: Social Science (6 hours, 2 courses)
1. Political Science 1113, American Federal Government
2. ____________

#### Core Area IV: Humanities (18 hours, 6 courses)
- Understanding Artistic Forms (3 hours, 1 course)
  1. History 1483, U.S., 1492-1865, or History 1493, U.S., 1865-Present,
  2. ____________ (excluding HIST 1483 and 1493)
- Non-Western Culture (3 hours, 1 course):
- 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.
  1. ____________
  2. ____________

#### Core Area V: Senior Capstone Experience (3 hours, 1 course):

### Major Requirements

A grade of C or better must be earned in each Microbiology course presented for major credit and in the required supporting courses.

#### Microbiology
- MBIO 2815 will not be accepted for major credit.
- A total of 30 hours in microbiology is required, which must include the following:
  - Fund. of Microbiology
  - Fund. of Microbiology Laboratory
  - Pathogenic Microbiology and Immunology
  - Intro. to Molecular Biology
  - Physiology of Microorganisms
  - Capstone in Microbiology
  - Intro. to Molecular Biology
  - Senior Thesis - Capstone

### Major Support Requirements

- Chemistry
  - General Chemistry
  - Organic Chemistry
  - General Chemistry Lab
  - Organic Chemistry Lab
  - Introduction to Biochemistry
- Physics
  - General Physics I
  - General Physics Lab I
  - General Physics for Life Science
  - General Physics for Life Science Lab
  - General Physics for Life Science Lab II
  - Oriented Majors
- Math
  - Calculus I for Business, Life and Social Sciences
- Botany
  - General Botany
- Zoology
  - Introductory Zoology
  - Introductory Zoology Lab

### Free Electives

Electives to bring total applicable hours to 120 including 48 upper-division hours.
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.

MILITARY, MILITARY IN-SERVICE, SKILLS, APPLIED TECHNOLOGY, AND P.E. COURSES: A maximum of 16 semester credit hours of basic skills and/or applied technology 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.

GRADE POINT 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 application is valid for three terms. Application forms are available from the College of Arts and Sciences Academic Services office, Ellison Hall, Room 124. The deadline for completion of all coursework to graduate in a particular term is the last day of classes in that term.

Refer to the OU Catalog for more complete information.

Suggested Semester Plan of Study — Microbiology (Standard) - 0411A

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 College of Arts and Sciences and/or Department of Botany and Microbiology academic advisors to verify that courses selected each semester fulfill the recommended plan and satisfy University, College of Arts and Sciences, and Microbiology major requirements.

<table>
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<tr>
<th>Year</th>
<th>FIRST SEMESTER</th>
<th>Hours</th>
<th>SECOND SEMESTER</th>
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<td>FRESHMAN</td>
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<td>CHEM 1315, General Chemistry</td>
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<td>Beginning Foreign Language (Core I)</td>
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<td>BOT 1114, General Botany, or</td>
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<td>PHYS 2414, General Physics for Life Sciences Oriented Majors</td>
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<td>TOTAL CREDIT HOURS</td>
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*If a student is deficient in computer literacy, please consult their college academic counselor in the Hobson Academic Services Center, ELLH 124, 325-4411, for approved courses.

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 iAdviser.ou.edu.