

2019-2020 JU Catalog: BIOLOGY – BS Degree
Major Requirements

| Biology Major Core Courses: 19 hours. | | | |
|--|-------|-------|------|
| Course | Hours | Grade | Term |
| BIOL 180 Biological Diversity | 4 | | |
| BIOL 190 Biological Unity | 3 | | |
| BIOL 223SI Oral Presentations in Biological Sciences (pre: "C" or better in either BIOL 180, or BIOL 190, or MSC 111 & 112, or MSC 113 & 114) | 3 | | |
| BIOL 280 Methods Field Biology (pre: "C" or better in BIOL 180, ENGL 103, CS 150) | 3 | | |
| BIOL 290 Basic Lab Techniques (pre: "C" or better in BIOL 190, CS 150, ENGL 103, and CHEM 104 or 205/L) | 3 | | |
| BIOL 470 BIOL & MSC Capstone (pre: "C" or better in BIOL 223SI, BIOL 280, BIOL 290, & 10 hours of upper division BIOL courses. | 3 | | |

| Allied Courses: 32 hours. | | | |
|--|-------|-------|------|
| Course | Hours | Grade | Term |
| CHEM 103 or 204/L General Chem I (pre: "C" or better in MATH 104 or placement in a core Math course) | 4 | | |
| CHEM 104 or 205/L General Chem II (pre: "C" or better in CHEM 103 or 204/L) | 4 | | |
| CHEM 301 Organic Chemistry I (pre: "C" or better in CHEM 104; co: CHEM 301L) | 4 | | |
| CHEM 302 Organic Chemistry II (pre: "C" or better in both CHEM 301 & 301L.; co: CHEM 302L) | 4 | | |
| MATH 140 Calculus I (pre: "C" or better in MATH 110) | 4 | | |
| MATH 206 Statistical Methods Sci (pre: "C" or better in MATH 110, 112 or 140) | 4 | | |
| Choose one of the following Physics combinations: | | | |
| PHYS 111 Principles of Physics I (co: MATH 110 or 112) and PHYS 112 Principles of Physics II (pre: PHYS 111) | | | |
| OR | | | |
| PHYS 151 General Phys: Mechanics(pre:MATH 140;co: MATH 141) and PHYS 152 General Physics: Electricity & Magnetism (pre: MATH 141 & "C" or better in PHYS 151) | | | |
| OR | | | |
| PHYS 151 General Phys: Mechanics(pre:MATH 140;co: MATH 141) and PHYS 112 Principles of Physics II (pre: PHYS 111) | | | |
| Course | Hours | Grade | Term |
| PHYS | 4 | | |
| PHYS | 4 | | |

| Additional upper division Biology courses: 15 hours, one course must be Writing Intensive (WI) -see notes section for complete WI requirements: | | | |
|--|-------|-------|------|
| Choose three (3) 300 or 400 level 4-credit hour BIOL lab courses * * cannot include independent study or internship | | | |
| AND | | | |
| Choose 3 hours of 300 or 400 level BIOL credits # # can include independent study or internship | | | |
| Course | Hours | Grade | Term |
| BIOL | 4 | | |
| BIOL | 4 | | |
| BIOL | 4 | | |
| BIOL | | | |
| BIOL | | | |

Notes:

- For students that double major in Biology and Chemistry (Biochemistry track), only courses that are specifically required for both majors may be counted towards both majors. Upper division electives may not be counted toward both majors simultaneously.
- Students double majoring in Biology and Marine Science must take all of the required courses for each major.
- Student may not double major in Biology and Life Science.
- Two writing intensive (WI or WR) courses must be completed with a minimum grade of "C-". One must be a 300- or 400-level BIOL course; the other WI course may be from any discipline.
- A minimum grade of "C" is required of Biology major in the following courses: BIOL 180, BIOL 190, BIOL 223SI, BIOL 280, BIOL 290, and BIOL 470.
- A minimum grade of "C" is required of Biology major in allied courses: PHYS 111, PHYS 112, PHYS 151, PHYS 152, MATH 140, MATH 206, CHEM 103 or 204/L, CHEM 104 or 205/L, CHEM 301/L, and CHEM 302/L.
- Biology majors must take an exit exam designated by the department during their senior year or as part of BIOL 470.

| 2 nd Writing Intensive course: | | | |
|--|-------|-------|------|
| 2nd Writing Intensive course from any discipline IF student does not choose both from Biology | | | |
| Course | Hours | Grade | Term |
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