**LIFE SCIENCE Major** (Bachelor of Arts Degree only – 2019/20 JU Catalog Degree Requirements)

Created & maintained by the Advising Center, approved by: Dr. N. Goldberg 08.14.19

- Use this major checksheet as a guide for selecting classes
- REFER TO DEGREE AUDIT in Student Planning to review and monitor degree and graduation requirements.

### Core Curriculum:

**Economics:** 3 hours. Choose one of the following courses:
- ECON 189 Core Seminar in Economics
- ECON 201 Principles of Macroeconomics

**Course** | **Hours** | **Grade** | **Term**
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**English/Writing:** 3 hours.

**Course** | **Hours** | **Grade** | **Term**
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**English/Literature:** 3 hours. Choose one of the following courses:
- ENGL 189 Core Seminar in Literature (pre: ENGL 103)
- ENGL 202 American Literary Experience (pre: ENGL 103)
- ENGL 203 World Literature (pre: ENGL 103)
- ENGL 204 British Literary Experience I (pre: ENGL 103)
- ENGL 206 British Literary Experience II (pre: ENGL 103)

**Course** | **Hours** | **Grade** | **Term**
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**Fine Arts:** 3 hours. Choose a single course or combination of courses from the following disciplines to total a minimum of three credit hours, includes core seminars:

- Art (ART)
- Art History (ARH)
- Dance (DANC)
- Film (FVA)
- Music (MUS)
- Theatre Arts (THEA)

**Course** | **Hours** | **Grade** | **Term**
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**Global Studies:** 3 hours. Choose the following required option associated with this degree program:

- **Bachelor of Arts degree:**
  - Only option: One (1) foreign language course or equivalent at the 202 level

**Course** | **Hours** | **Grade** | **Term**
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**History:** 3 hours. Choose one HIST course at the 100 or 200 level:

**Course** | **Hours** | **Grade** | **Term**
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**Humanities:** 3 hours. Choose one HUM course (pre: ENGL 103 & ENGL/literature core requirement).

**Course** | **Hours** | **Grade** | **Term**
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**Laboratory Science:** 4 hours. Requirement fulfilled in major.

**Course** | **Hours** | **Grade** | **Term**
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**Mathematics:** 3-4 hours. Choose one of the following courses:
- MATH 110 Math of Motion & Change (pre: MATH 104)
- MATH 112 Modern Applications of Math (pre: MATH 104)
- MATH 114 Discover, Decode, Decide (pre: MATH 104)
- MATH 140 Calculus I (pre: “C” or better in MATH 110)
- MATH 189 Core Seminar in Mathematics (pre: MATH 104)

**Course** | **Hours** | **Grade** | **Term**
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**Philosophy:** 3 hours. Choose one of the following courses:
- PHIL 101 Introduction to Philosophy
- PHIL 189 Core Seminar in Philosophy
- PHIL 212 Ethics

**Course** | **Hours** | **Grade** | **Term**
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**Social Science:** 3 hours. Choose one of the following courses:
- GEOG 189 Core Seminar in Geography
- GEOG 200 World Geography
- POL 189 Core Seminar in Political Science
- POL 205 American National Government & Politics
- POL 208 International Politics
- PSYC 189 Core Seminar in Psychology
- PSYC 201 Introductory Psychology
- SOC 189 Core Seminar in Sociology
- SOC 203 Introductory Sociology

**Course** | **Hours** | **Grade** | **Term**
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**Technology:** 3 hours. Choose one of the following courses:
- CS 150 Personal Productivity Using Technology
- DSIM 203RI Applied Business & Economic Analysis
- MUS 150 Intro to Music Technology (pre: MUS 141; co: MUS 142)
- XXX xxx Technology Intensive (TI) course in the major approved by the department as an equivalent

**Course** | **Hours** | **Grade** | **Term**
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**Notes:**
- Students must earn a minimum grade of “C-” in ENGL 103 and should complete this introductory writing course in their 1st year of enrollment.
- All students enrolled in ENGL 103 must pass an Exit Exam at the end of the term. Students not passing this exit exam are required to enroll in ENGL 214WI prior to reaching 60 hours. It is not necessary to pass this exam in order to pass ENGL 103. ENGL 214WI counts as an elective course.
- Students not qualified to begin at the ENGL 103 level may be required to take ENGL 101 prior to enrolling in ENGL 103. The hours earned for ENGL 101 will count as elective hours in the degree program.
- It is recommended that students complete the Technology, Mathematics, and foreign language (if applicable to degree chosen) requirements by end of their sophomore year.
- Placement in a “Core” Mathematics course assumes the student is qualified beyond the MATH 104 level. If not, students may be required to take MATH 100 and/or MATH 104 prior to enrolling in a higher level Mathematics course. The hours earned for MATH 100 and/or MATH 104 will count as elective hours in the degree program.
- Placement in foreign language is determined by previous college background and/or foreign language placement test.
## Life Sciences Major Core Courses: 19 hours.

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<tr>
<th>Course</th>
<th>Hours</th>
<th>Grade</th>
<th>Term</th>
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<tbody>
<tr>
<td>BIOL 180 Biological Diversity</td>
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<tr>
<td>BIOL 190 Biological Unity</td>
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<tr>
<td>BIOL 223SI Oral Presentations in Biological Sciences (pre: &quot;C&quot; or better in either BIOL 180, or BIOL 190, or MSC 111 &amp; 112, or MSC 113 &amp; 114)</td>
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<tr>
<td>BIOL 280 Methods Field Biology (pre: &quot;C&quot; or better in BIOL 180, ENGL 103, &amp; CS 150)</td>
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<tr>
<td>BIOL 290 Basic Lab Techniques (pre: &quot;C&quot; or better in BIOL 190, CS 150, ENGL 103, MATH 206 and CHEM 104)</td>
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<tr>
<td>BIOL 470 BIOL &amp; MSC Capstone (pre: &quot;C&quot; or better in BIOL 223SI, BIOL 280, BIOL 290, &amp; 10 hours of upper division BIOL courses.)</td>
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## Allied Courses: 12 hours.

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<tr>
<td>CHEM 103 or 204/L General Chem I (pre: &quot;C&quot; or better in MATH 104 or placement in a core Math course)</td>
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<tr>
<td>CHEM 104 or 205/L General Chem II (pre: &quot;C&quot; or better in CHEM 103)</td>
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<tr>
<td>MATH 206 Statistical Methods Sci (pre: &quot;C&quot; or better in MATH 110, 112 or 140)</td>
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## Additional upper division Biology courses: 11 hours, which MUST include one writing intensive BIOL course (two WI courses required-see notes for complete WI requirements):

- Choose two 300 or 400 level 4-credit hour BIOL lab courses *
  
  * cannot include independent study or internship

- Choose 3 hours of 300 or 400 level BIOL credits #
  
  # can include independent study or internship; cannot include BIOL 432

## 2nd Writing Intensive course:

2nd Writing Intensive course from any discipline IF student does not choose both from Biology

## AND complete one of the following options:

### 1. Requirements for an additional major:

**Additional Major:** variable hours, depends on major chosen.

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### OR

#### 2. Requirements for two minors:

**Minor #1:** variable hours, depends on minor chosen.

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**Minor #2:** variable hours, depends on minor chosen.

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NOTES:
- Students majoring in Life Science must also complete an additional major or two minors.
- Only courses that are specifically required for both the Life Science major and the additional major or minors may be counted toward the different programs. Upper division electives may not be used for multiple programs.
- Students double majoring in Life Science and Marine Science must take all of the required courses for each major.
- Students may not double major in Life Science and Biology.
- Students majoring in Life Science may not minor in Biology.
- The Life Science major is available as a B.A. only.
- 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 Life Science majors in the following courses: BIOL 180, BIOL 190, BIOL 223SI, BIOL 280, BIOL 290, BIOL 470, MATH 206, CHEM 103, and CHEM 104.
- Life Science majors must take an exit exam designated by the department during their senior year or as part of BIOL 470.
- Students interested in entering the workforce in biology, graduate programs in biology, or pursue professional school with a biology focus (medical, dental, etc.) after graduation, are advised to major in Biology instead of Life Science.

General Electives: Additional hours needed to total 120 hours for degree: approximately 21 – 24 hours for Biology majors.

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<td>XXX xxx</td>
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Experiential Learning Requirement: 3 hours.
Experiential Learning course is defined as one of the following:
- Undergraduate research, Departmental Honors, or Research Intensive (RI).
- Internship
- Study Abroad, JU 409 required co-requisite
- Service Learning, JU 408 required co-requisite
A grade of "C" or better is required in the Experiential Learning course.
The Experiential Learning course may be a course from the University Core Curriculum, major, minor, or elective courses.

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<td>XXX xxx</td>
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Additional General Requirements for all Baccalaureate Degrees. Indicate with "( √ )" that requirement is met.
- 120 hours (minimum) required for degree ( )
- Final 30 hours must be completed at JU ( )
- 12 hours in major courses 300 level or above must be completed at JU ( )
- 42 hours must be 300 level or above ( )
- QEP-Experiential Learning course (3 hours) required for all majors, satisfied by a core, major, minor or elective course ( )
- Cum 2.00 GPA in all coursework at JU ( )
- Cum 2.00 GPA in major area coursework at JU ( )
- Cum 2.00 GPA in minor area coursework at JU ( )