### Bachelor of Arts in Biology

**First-Time College Students**

Complete 12 term hours minimum toward degree  
Earn 2.250 minimum UM GPA  
Earn 2.250 minimum UM Biology GPA

**Four-Year Graduation Plan - Courses and Critical Benchmarks**

The following is a sample course of study. It is the Student’s responsibility to ensure that all program requirements are met. This guide is not a substitute for academic advisement. **All incoming freshmen must develop an academic plan** (which maps out all courses needed to graduate within your intended major/degree). Your academic advisor is available to meet with you and create your specific plan.

Your path to graduation may vary slightly based on factors such as college credit you earned while in high school, transfer work from other institutions of higher learning and placement in Mathematics. You are responsible for checking prerequisites to any courses. Critical Courses and minimum recommended grades (as noted below) provide feedback regarding major fit and help indicate likelihood of successful completion of chosen academic program and degree.

<table>
<thead>
<tr>
<th>Critical Course or Benchmark</th>
<th>Course Subject, Number, and Title and Academic Plan Benchmarks</th>
<th>Min Recom Grade</th>
<th>Credit Hours (CH)</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blue</td>
<td>Bold = UMKC General Education Core Requirement</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>*Prerequisite May Be Required</td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>**Co-Requisite Enrollment Required</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

#### Fall Semester Year 1: 15 hours

**Anchors**

**Anchor I: Reasoning and Values** Click for options  
**Anchor II: Culture and Diversity** Click for options

- **BIOLOGY 102: Biology And Living OR**  
  - B 3
- **BIOLOGY 108: General Biology I OR**  
  - B 3
- **BIOLOGY 109: General Biology II**  
  - B 3
- **BIOLOGY 108L: General Biology I Laboratory OR**  
  - B 1
- **BIOLOGY 109L: General Biology II Laboratory**  
  - B 1
- **MATH 110: College Algebra OR**  
  - B 3
- **MATH 120: Precalculus OR**  
  - B 5
- **CHEM 211: General Chemistry I AND**  
  - B 4
- **CHEM 211L: Experimental General Chemistry I**  
  - B 1
- **BIOLOGY 115: First Year Seminar**  
  - 1

Complete 12 term hours minimum toward degree  
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Earn 2.250 minimum UM Biology GPA

#### Spring Semester Year 1: 15-17 hours

**Anchors**

**Anchor II: Culture and Diversity** Click for options  
**Anchor I: Reasoning and Values** Click for options

- **BIOLOGY 108: General Biology I OR**  
  - B 3
- **BIOLOGY 109: General Biology II**  
  - B 3
- **BIOLOGY 108L: General Biology I Laboratory OR**  
  - B 1
- **BIOLOGY 109L: General Biology II Laboratory**  
  - B 1
- **CHEM 211: General Chemistry I AND**  
  - B 4
- **CHEM 211L: Experimental General Chemistry I OR**  
  - B 1

Register for UMKC Roo Career Network

Students who are planning to complete their degree in 4-years should aim to complete a minimum of 30 credit hours per academic year (Fall, Spring, Summer)

Students must earn a grade of C- or higher for courses to satisfy majors requirements.
UMKC Major Map: Bachelor of Arts in Biology
First-Time College Students

**CHEM 212R: General Chemistry II AND CHEM 212LR: Experimental General Chemistry II**

- B 4

**Complete Anchor I and DISC 100**

- Earn 2.250 minimum cumulative UM GPA
- Earn 2.250 minimum cumulative UM Biology GPA

**Summer Semester Year 1: 0 hours if all previous courses completed**

**Fall Semester Year 2: 15 hours**

- BIOLOGY 202: Cell Biology OR BIOLOGY 206: Genetics
- MATH 210: Calculus I OR MATH 216: Calculus for Biological Sciences OR STAT 235: Elementary Statistics
- **Focus Elective (A or C) Click for options**
  - 3
- Elective
  - 3
- Elective
  - 3

- Complete 12 term hours minimum toward degree
- Earn 2.250 minimum cumulative UM GPA
- Earn 2.250 minimum cumulative UM Biology GPA

**Spring Semester Year 2: 17 hours**

- BIOLOGY 202: Cell Biology OR BIOLOGY 206 Genetics
- **Focus Elective (A or C) Click for options**
  - 3
- Elective
  - 3
- Elective
  - 3

- Complete Anchor II and DISC 200
- Complete CHEM 321: Organic Chemistry I
- Complete CHEM 321L: Organic Chemistry Laboratory I
- Complete 12 term hours minimum toward degree
- Earn 2.250 minimum cumulative UM GPA
- Earn 2.250 minimum cumulative UM Biology GPA

**Note:**

- May use summer semester to ensure completion of 30 hours per academic year or to lighten fall and spring course loads.
- Note: not all classes are offered in the summer. Consult with your advisor for recommendations.

- HISTORY 101, 102 or POL-SCI 210 recommended for **Focus C and Constitution Requirement**

- Students considering medicine as a career should plan to take coursework in statistics, psychology, and sociology to prepare them for the Medical College Admission Test (MCAT).

- Students planning to continue their education in professional or graduate programs should meet with their adviser to discuss application timeline and requirements.

- Students interested in health care should consider applying to the following:
  - BS Biology Biomedical Sciences Emphasis Program
  - Medical Scholars-UMKC School of Medicine
  - Reserved Admission-UMKC School of Dentistry
**UMKC Major Map: Bachelor of Arts in Biology**  
First-Time College Students  
Catalog Year: 2015 - 2016

### Summer Semester Year 2: 0 hours if all previous courses completed

- Complete 60 total hours toward degree

### Fall Semester Year 3: 16-17 hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS-BIOC 341: Basic Biochemistry</td>
<td>B 3</td>
</tr>
<tr>
<td>BIOLOGY Elective-Upper Level</td>
<td>B 3</td>
</tr>
<tr>
<td>BIOLOGY Elective Lab</td>
<td>B 3</td>
</tr>
<tr>
<td>PHYSICS 210: General Physics I OR PHYSICS 240: Physics For Scientists and Engineers I</td>
<td>B 4</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
</tr>
</tbody>
</table>

- Complete RooWriter Assessment
- Earn 2.250 minimum cumulative UM GPA
- Earn 2.250 minimum cumulative UM Biology GPA

### Spring Semester Year 3: 14-15 hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Anchor III: Community &amp; Civic Engagement</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>DISC 300: Community &amp; Civic Engagement</strong> (Speech and Writing)</td>
<td>3</td>
</tr>
<tr>
<td>BIOLOGY Elective - Upper Level</td>
<td>B 2-3</td>
</tr>
<tr>
<td>BIOLOGY Elective</td>
<td>B 3</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
</tr>
</tbody>
</table>

- Earn 2.250 minimum cumulative UM GPA
- Earn 2.250 minimum cumulative UM Biology GPA

### Summer Semester Year 3: 0 hours if all previous courses completed

- Complete 90 total hours toward degree

### Fall Semester Year 4: 15 hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY Elective - Upper Level</td>
<td>B 3</td>
</tr>
<tr>
<td>BIOLOGY Elective - Upper Level</td>
<td>B 3</td>
</tr>
<tr>
<td>BIOLOGY Elective - Upper Level</td>
<td>B 3</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
</tr>
<tr>
<td>Elective</td>
<td></td>
</tr>
</tbody>
</table>

- Complete Anchor III and DISC 300
- Earn 2.250 minimum cumulative UM GPA
- Earn 2.250 minimum cumulative UM Biology GPA

May use summer semester to ensure completion of 30 hours per academic year or to lighten fall and spring course loads.

Note: not all classes are offered in the summer. Consult with your advisor for recommendations.
**UMKC Major Map: Bachelor of Arts in Biology**

**First-Time College Students**

**Catalog Year: 2015 - 2016**

### Spring Semester Year 4: 12 hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY 498WI: Critical Analysis Of Biological Issues OR</td>
<td></td>
<td>B 3</td>
</tr>
<tr>
<td>LIFE-SCI 497: Special Topics OR</td>
<td></td>
<td>B 3</td>
</tr>
<tr>
<td>LIFE-SCI 499: Undergraduate Research</td>
<td></td>
<td>B 3</td>
</tr>
<tr>
<td>BIOLOGY Elective - Upper Level</td>
<td></td>
<td>B 3</td>
</tr>
<tr>
<td>BIOLOGY Elective - Upper Level</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Elective - Upper Level</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

- Complete Major Field Exam for Biology
- Complete ETS Proficiency Profile
- Earn 2.250 minimum cumulative UM GPA
- Earn 2.250 minimum cumulative UM Biology GPA

### Graduation Requirements Summary

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Hours (120 minimum)</td>
<td>120</td>
</tr>
<tr>
<td>Total Hours at UMKC (30 hours min)</td>
<td>30</td>
</tr>
<tr>
<td>Major GPA</td>
<td>2.00</td>
</tr>
<tr>
<td>UMKC GPA</td>
<td>2.00</td>
</tr>
</tbody>
</table>

### Other Information

**Non-course requirements**

- RooWriter Assessment: **Met**

The School reserves the right to make changes in courses, degree requirements and course schedules without notice.

Students are expected to maintain a quality of achievement significantly above minimum UMKC standards for degree work. Individual student progress will be monitored throughout the program. Satisfactory progress is required of all students for retention in the program. Students are expected to maintain academic standards, perform satisfactorily in courses, refrain from academic dishonesty, comply with the established University and teacher education timetables and requirements, and refrain from unethical or unprofessional behavior or behaviors that obstruct the training process or threaten the welfare of the student or others. Other circumstances involving student behavior will be addressed by the faculty on an individual basis.

### Advising Contact Information

School of Biological Sciences Academic Support
816-235-2580
SBS-undergrad@umkc.edu
http://sbs.umkc.edu/undergraduate_support.cfm

### Career Opportunities

UMKC Career Services Resources: [http://www.career.umkc.edu/?q=node/87](http://www.career.umkc.edu/?q=node/87)