

# MY DEGREE WORKSHEET

## BACHELOR OF ARTS (BA), BIOLOGICAL SCIENCES

For students entering College Fall 2019

Name  Student #  Expected Graduation Date

### BIOLOGICAL SCIENCES

Select at least **29 total credit hours** in *biological sciences*, including at least **16 hours at 3000-level or higher**, at least **one 3000-level or higher** course with a formal lab or field experience, and at least **12 hours at 2000-level or higher at MU**. You must receive a grade of C- or higher in all the biology courses you use to fulfill these requirements, and you must maintain an overall GPA of 2.0 or higher in all those courses. You may not use independent reading, internship, problems courses, BIO\_SC 2001, 2015, 2060, 2100, 2150, 2950, and 3010 to meet the 29-hour requirement. You may use BIOCHM 4270 and 4272 to meet the 29-hour requirement.

	Grade/ Transfer	Credit Hrs
<b>BIO_SC 1500</b> Intro to Biological Systems with Lab /		
<b>BIO_SC 2200</b> General Genetics		
<b>BIO_SC 2300</b> Introduction to Cell Biology		
<b>Evolutionary Biology</b>		
<i>Choose 1</i> <b>BIO_SC 3400*</b> Evolution & Ecology (3 hrs, Fall, Sp) <b>BIO_SC 4600</b> Evolution (3 hrs, Fall, Sp) *No credit for BIO_SC 3400 if either BIO_SC 3650 or 4600 is already completed. You may not be co-enrolled in BIO_SC 3400 and 4600.		
<b>Biological Diversity</b>		
<i>Choose 1</i> <b>BIO_SC 3210</b> Plant Systematics (4 hrs, lab, Sp) <b>F_W 2600</b> Ornithology (5 hrs, lab, Sp) <b>BIO_SC 3260W</b> Invertebrate Zoology (3 hrs, Sp) <b>F_W 2700</b> Ichthyology (4 hrs, lab, Sp) <b>BIO_SC 3710</b> Entomology (3 hrs, Fall) <b>F_W 3660</b> Mammalogy (4hrs, lab, Sp) <b>BIO_SC 3750</b> General Microbiology (3 hrs, Fall) <b>MICROB 3200*</b> Medical Microbiology & Immunology (4 hrs, Fall, Sp) *MICROB 3200 cannot be used to satisfy lab requirement		
<b>Capstone</b> (must complete in last 45 hours)		
<i>Choose 1</i> <b>BIO_SC 4950/4952</b> Undergrad Research (3hrs, Fall-Sp-Sum) <b>BIO_SC 4982W</b> Human Inherited Disease (3hrs, even Fall) <b>BIO_SC 4972W</b> Developmental Biology (3 hrs, Fall, Sp) <b>BIO_SC 4990</b> Vertebrate Hist/Microscopic Anat (5 hrs, lab, Fall) <b>BIO_SC 4976</b> Molecular Biology (3 hrs, Fall, Sp) <b>BIO_SC 4994</b> Senior Seminar (3 hrs, Fall, Sp) <b>BIO_SC 4978</b> Cancer Biology (3 hrs, Fall)		
<b>Elective</b> (if needed):		
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<b>Elective</b> (if needed):		

**TOTAL BIOLOGY HOURS**  
Should total at least 29 hrs

**TOTAL BIOLOGY HRS at 3000+**  
Should total at least 16 hrs

### RELATED SCIENCE FIELDS

You must receive a grade of C- or higher in all the courses in related science fields that you use to fulfill these requirements, and you must also maintain an overall GPA of 2.0 or higher in all MU courses.

#### CHEMISTRY (ALL COURSES REQUIRED)

<b>CHEM 1320</b> College Chemistry I		
<b>CHEM 1330</b> College Chemistry II		
<b>CHEM 2030</b> Survey of Organic Chemistry (3 hrs) <b>OR</b> <b>CHEM 2100 + CHEM 2110</b> , Organic Chemistry I and II (6 hrs)		

#### PHYSICAL SCIENCES (choose 1)

<b>Physical Sciences:</b> [SELECT]		
<i>Choose 1</i> <b>PHYSCS 1210</b> College Physics I (4 hrs) <b>GEOL 1100</b> Principles of Geology w/Lab (4hrs) <b>PHYSCS 2750</b> University Physics I (5 hrs) <b>GEOL 1200</b> Environmental Geology w/Lab (4hrs) <b>ASTRON 1010</b> Introduction to Astronomy (4 hrs)		

#### MATHEMATICAL SCIENCES (choose 1)

<b>Mathematical Sciences</b> [SELECT]		
<i>Choose 1</i> <b>MATH 1400</b> Calculus for Social & Life Sci I (3 hrs) <b>STAT 1200</b> Intro to Stat. Reasoning (3 hrs) <b>MATH 1500</b> Analytic Geometry & Calculus I (5 hrs) <b>STAT 2500</b> Intro to Probability & Statistics I (3 hrs) <b>INFOTC 1040</b> Introduction to Problem Solving & Programming (3 hrs)		



**College of Arts and Science Foundation, General Education, and University Requirements**  
**Bachelor of Science Degree - Biological Sciences**

	Department/Course #	Semester
ENGLISH 1000 OR EQUIVALENT*		
WRITING INTENSIVE I (1000+)*		
WRITING INTENSIVE II (3000+)*		
AMERICAN GOVERNMENT OR HISTORY		

	Department/Course #	Semester
Math & Quant Reasoning*		
A&S Diversity Intensive Req		
Capstone*		

Second Language Requirement (Generally 12-13 hours, must be all in the same language)

Department/Course #	Grade	Department/Course #	Grade	Department/Course #	Grade	Department/Course #	Grade	Department/Course #	Grade

**COLLEGE OF ARTS AND SCIENCE FOUNDATION (BREADTH OF STUDY AND DEPTH OF STUDY) REQUIREMENTS**

*(List courses already completed and courses to be completed)*

— Arts and Science Foundation courses satisfy the MU Distribution of Content requirement for general education —  
*(if student is pursuing a second non-A&S degree and/or transfers to another division,  
 check with the appropriate advisor concerning courses meeting MU Distribution of Content requirement)*

	DEPARTMENT AND COURSE NUMBER	SEMESTER/ GRADE	CREDIT HOURS	TOTAL HOURS	
<b>AREA 1 — BIOLOGICAL, PHYSICAL, AND MATHEMATICAL SCIENCES</b> 9 hours minimum covering at least 2 of 3 categories (must include 1 science lab). Examples include <b>Biological</b> : biology, biological anthropology; <b>Physical</b> : chemistry, geology, physics; <b>Mathematical</b> : mathematics, statistics.					<ul style="list-style-type: none"> <li>• Courses in the major department may not be used to fulfill A&amp;S Foundation (Breadth of Study and Depth of Study) requirements</li> <li>• 30 hours must be completed at the 3000-4000 level</li> <li>• In order to graduate, students must have the following Grade Point Averages (GPAs): 2.0 cumulative GPA (UM) 2.0 major GPA</li> </ul> <p>* Course must be completed with a C- or higher</p>
<b>AREA 2a — BEHAVIORAL SCIENCES</b> 6 hours minimum. 6 hours of A&S coursework must be completed in Area 2a and 2b (total).					
<b>AREA 2b — SOCIAL SCIENCES</b> 9 hours minimum covering at least 2 subjects. 6 hours of A&S coursework must be completed in Area 2a and 2b (total).					
<b>AREA 3 — HUMANITIES AND FINE ARTS</b> 12 hours minimum covering at least 3 subjects. 3 hours of A&S coursework must be completed.					

*Last update 5/2022*

**Depth of Study requirement:** 3, 2000-level courses from 2 of the areas above, including one A&S course and one MU-authored course.

**List courses**

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All students must file a graduation plan the fall or spring semester after completing 60 credit hours. A final graduation check is completed before the last semester of enrollment. Students may check courses that count toward the distribution of content on the MU's general education requirements website: <http://generaleducation.missouri.edu/requirements/> Students may review progress toward most majors by checking their degree audit: <http://registrar.missouri.edu/degrees-audits/degree-audits/>