

# MY DEGREE WORKSHEET

## BACHELOR OF SCIENCE (BS), BIOLOGICAL SCIENCES EMPHASIS: MEDICAL SCIENCE AND HUMAN BIOLOGY

For students entering College Fall 2019

Name  Student #  Expected Graduation Date

### BIOLOGICAL SCIENCES – 33 CREDIT HOURS

Select at least **33 total credit hours** in *biological sciences*, including at least **14 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 33-hour requirement. You may use BIOCHM 4270 and 4272 to meet the 33-hour requirement.

	Grade/ Transfer	Credit Hrs
BIO_SC 1500 Intro to Biological Systems with Lab /		
BIO_SC 2200 General Genetics		
BIO_SC 2300 Introduction to Cell Biology		
Evolutionary Biology [SELECT]		
Choose 1 BIO_SC 3400* Evolution & Ecology (3 hrs, Fall, Sp) BIO_SC 4600 Evolution (3 hrs, Fall, Sp) *No credit for BIO_SC 3400 if either BIO_SC 3650 or BIO_SC 4600 is already completed. You may not be co-enrolled in BIO_SC 3400 and BIO_SC 4600.		
Biological Diversity [SELECT]		
Choose 1 BIO_SC 3750 General Microbiology (3 hrs, Fall) MICROB 3200* Medical Microbiology & Imm. (4 hrs, Fall, Sp) *cannot be used to satisfy the lab requirement		
BIO_SC 3700 Physiology		
BIOCHM 4270 Biochemistry		
Capstone (must complete in last 45 hours) [SELECT]		
Choose 1 BIO_SC 4950/4952 Undergrad Research (3hrs, Fall-Sp-Sum) BIO_SC 4982W Human Inherited Disease (3 hrs, even Fall) BIO_SC 4972W Developmental Biology (3 hrs, Fall, Sp) BIO_SC 4990 Vertebrate Hist/Micro Anat (5 hrs, lab, Fall) BIO_SC 4976 Molecular Biology (3 hrs, Fall, Sp) BIO_SC 4994 Senior Seminar (3 hrs, Fall, Sp) BIO_SC 4978 Cancer Biology (3 hrs, Fall)		
Elective (if needed):		
Elective (if needed):		
<b>TOTAL BIOLOGY HOURS</b>		
<b>TOTAL BIOLOGY HRS at 3000+</b>		

### PSYCHOLOGY/SOCIOLOGY – 6 CREDIT HOURS

Choose 2 PSYCH 1000 General Psychology PSYCH 2310 Social Psychology PSYCH 2810 Human Sexuality  
PSYCH 2210 Mind, Brain, and Behavior PSYCH 2410 Developmental Psych SOCIOL 2200 Social Inequalities  
PSYCH 2220 Drugs and Behavior PSYCH 2510 Survey Abnormal Psych

[SELECT]		
[SELECT]		

### ETHICS – 3 CREDIT HOURS\*

Choose 1 PHIL 1150 Introductory Bioethics PHIL 2400 Ethics and Professions PHIL 2440 Medical Ethics  
\*If PHIL 2440 is used for the Foreign Language Alternative, the Ethics requirement is waived

[SELECT]		
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### 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)

CHEM 1320 College Chemistry I		
CHEM 1330 College Chemistry II		
CHEM 2100 Organic Chemistry I		
CHEM 2110 Organic Chemistry II		
CHEM 2130 Organic Chemistry Lab		

### PHYSICAL SCIENCES (choose 1 set)

Choose 1 Set PHYSICS 1210 and 1220 College Physics I&II (8 hrs) or PHYSICS 2750 and 2760 University Physics I&II (10 hrs)

[SELECT]		
[SELECT]		

### MATHEMATICAL SCIENCES (choose 1 calculus + 1 statistics)

Calculus MATH 1400 Calculus for Social & Life Sci I (3 hrs) Statistics STAT 1200 Intro to Statistical Reasoning I (3 hrs)  
Options: MATH 1500 Analytic Geometry & Calculus I (5 hrs) Options: STAT 2500 Intro to Probability & Statistics I (3 hrs)

Calculus: [SELECT]		
Statistics: [SELECT]		



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

	Department/Course #	Semester		Department/Course #	Semester
ENGLISH 1000 OR EQUIVALENT*			Math & Quant Reasoning*		
WRITING INTENSIVE I (1000+)*			A&S Diversity Intensive Req		
WRITING INTENSIVE II (3000+)*			Capstone*		
AMERICAN GOVERNMENT OR HISTORY					

Second Language (GENERALLY 12–13 HOURS; MUST BE IN THE SAME LANGUAGE) OR Second Language Alternative (12 HOURS)

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><li>* Course must be completed with a C- or higher</li></ul>
<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/>