

Division of Biological Sciences

Emphasis: Medical Science & Human Biology

Name in Full

E-mail Address

Biological Sciences

Select at least 33 total hours in *biology*, 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
- at least 12 hours at 2000-level or higher at MU

	Course Number	Grade/Transfer	Hours
Introductory Biology	1500	_____	_____
General Genetics	2200	_____	_____
Cell Biology	2300	_____	_____
Evolutionary Biology	_____	_____	_____
Biological Diversity	_____	_____	_____
Physiology	3700	_____	_____
Biochemistry	4270	_____	_____
Capstone	_____	_____	_____
<u>Electives</u>	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Bio Hrs _____ Bio Hrs at 3000+ _____

You must receive a *grade of C- or higher* in all the biology courses you use to fulfill these requirements, and you must also maintain an *overall GPA of 2.0 or higher* in all those courses.

You may not use independent reading, internship, problems courses, Bio 2001, 2060, 2100 or 2150 to meet the 33-hr req.

You may use Biochemistry 4270 and 4272 to meet the 33-hour requirement.

rev. 02-21-20

GRADUATION PLAN

For Students Entering College Fall 2019

Student Number

Local Phone Number

Evolutionary Biology (select *one* course)

- *Bio 3400 Evolution and Ecology, 3 hrs, f & s
- Bio 4600 Evolution, 3 hrs, f & s

Biological Diversity (select *one* course)

- M 3200 Medical Microbiology, 4 hrs, f & s
- Bio 3750 General Microbiology, 3 hrs, f

Capstone (select *one* course; complete in last 45 hours)

Recommended Capstone Options

- Bio 4950/4952 Undergrad Research, 3 hrs, f, s & sum
- Bio 4972W Developmental Biology, 3 hrs, f, & s
- Bio 4976 Molecular Biology, 3 hrs, f & s
- Bio 4978 Cancer Biology, 3 hrs, f
- Bio 4982W Human Inherited Diseases, 3 hrs, even f
- Bio 4990 Vertebrate Histology/Microscopic Anatomy, 5 hrs, lab, f
- Bio 4994 Senior Seminar, 3 hrs, f & s
(Ex: Pathophysiology Tutorial, Neurobiology of Disease, Adv Topic in Physiology, or Molecular Mechanisms of Neurobiological Disease)

f (fall), s (spring), sum (summer)

6 Hours of Psychology/Sociology (choose *two* courses)

- Psych 1000 Psych 2310 Psych 2810
- Psych 2210 Psych 2410 Soc 2200
- Psych 2220 Psych 2510 Soc 2230

Ethics** (choose *one* course)

- Phil 1150 Phil 2400 Phil 2440

**If Phil 2440 is used for the Foreign Language Alternative, the Ethics requirement is waived.

*Effective Spring 2015: No credit for Bio 3400 if either Bio 3650 or Bio 4600 is already completed. May not be co-enrolled in Bio 3400 and Bio 4600.

Bachelor of Science (BS)

Expected Graduation Date

Related Science Fields Grade/Transfer Hours

Chemistry (all courses required)

Chem 1320 General Chemistry I	_____	_____
Chem 1330 General Chemistry II	_____	_____
Chem 2100 Organic Chemistry I	_____	_____
Chem 2110 Organic Chemistry II	_____	_____
Chem 2130 Organic Lab I	_____	_____

Physical Sciences (select *one set* of courses)

Phys 1210 and 1220 College Physics I and II, 8 hrs	_____	_____
Phys 2750 and 2760 University Physics I and II, 10 hrs	_____	_____

Mathematical Sciences

Select *one calculus option*:

Math 1400 Calculus for Soc/Nat Sciences I, 3 hrs

OR

Math 1500 Analytic Geometry & Calculus I, 5 hrs

Select *one statistic option*:

Stat 1200 or 1400 Elementary Statistics, 3 hrs

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.

Student Date

Advisor Date

Director of Biological Sciences Date

Dean Date



COLLEGE OF ARTS AND SCIENCE FOUNDATION (BASIC SKILLS), UNIVERSITY GENERAL EDUCATION AND GRADUATION REQUIREMENTS
BACHELOR OF SCIENCE DEGREE (IN BIOLOGICAL SCIENCES) (FOR STUDENTS STARTING MU SUMMER '19 OR LATER)
(List courses already completed and courses to be completed)

Ed = General Education, G = Graduation, B = Basic Skills, O = course may be use for other degree requirements

All General Education and Graduation requirements must be met with a grade of C- or better (except for the American Gov./History requirement)

	Department/Course #	Semester		Department/Course #	Semester
ENGLISH 1000 OR EQUIVALENT ^{Ed,B}			MATH 1100/1120, 1160, 1180; STAT 1200 ^{Ed,B}		
WRITING INTENSIVE I (1000+) ^{Ed,O}			CAPSTONE ^{G,O}		
WRITING INTENSIVE II (3000+) ^{G,O}			DIVERSITY REQUIREMENT (DI) ^O		
AMERICAN GOVERNMENT OR HISTORY ^{Ed,R,O}			FOR STUDENTS BEGINNING COLLEGE FALL '17 OR LATER		

FOREIGN LANGUAGE (GENERALLY 12-13 HOURS; MUST BE IN THE SAME LANGUAGE) OR FOREIGN LANGUAGE ALTERNATIVE (12 HOURS) ^B

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 an Arts and Science degree —
*(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	GRADE	CREDIT HOURS	TOTAL HOURS	
AREA 1 — BIOLOGICAL, PHYSICAL, AND MATHEMATICAL SCIENCES 9 hours minimum covering at least 2 of 3 categories (must include 1 science lab). Examples include Biological : biology, biological anthropology; Physical : chemistry, geology, physics; Mathematical : mathematics, statistics.					<ul style="list-style-type: none"> Consult the A&S Advising website for courses that meet A&S Foundation requirements One non-A&S course can count toward the 2000 level or higher course requirement Only one non-A&S course may be counted in each of the four areas Courses in the major department may not be used to fulfill A&S Foundation (Breadth of Study and Depth of Study) requirements 30 of the last 36 hours must be taken as MU courses In order to graduate, students must have the following Grade Point Averages (GPAs): <ul style="list-style-type: none"> 2.0 cumulative GPA 2.0 major GPA 2.0 minor GPA
AREA 2 — BEHAVIORAL SCIENCES 5 hours minimum. Examples include anthropology (excluding biological anthropology), psychology and sociology.					
AREA 3 — SOCIAL SCIENCES 9 hours minimum covering at least 2 subjects. Examples include economics, geography, history and political science.					
AREA 4 — HUMANITIES AND FINE ARTS 12 hours minimum covering at least 3 subjects. Examples include appreciation of art, music or theatre; classical humanities; creative and performing arts; foreign civilizations; history of art, music or theatre; literature; philosophy; and religious studies.					

Three 2000 level or above Arts & Science approved courses (minimum 9 hours) must be distributed in at least two of the four areas listed above. One course must be an MU course.

List courses

In order to graduate, students must complete a minimum of (A) **120 hours** of degree applicable credit (including major, foundation courses, general education, minor [optional], and electives) including (B) **30 hours numbered 3000 or above**. You will receive an e-mail stating progress toward requirements A and B. This information is also available at 107 Lowry Hall a few weeks after filing this graduation plan.