

# Division of Biological Sciences

\_\_\_\_\_  
Name in Full

\_\_\_\_\_  
Local Address, including zip code

\_\_\_\_\_  
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<br>Number | Grade/<br>Transfer | Hours |
|----------------------|------------------|--------------------|-------|
| Introductory Biology | 1500             | _____              | _____ |
| General Genetics     | 2200             | _____              | _____ |
| Cell Biology         | 2300             | _____              | _____ |
| Evolutionary Biology | _____            | _____              | _____ |
| Biological Diversity | _____            | _____              | _____ |
| 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. 10-16-2020

# GRADUATION PLAN

## For Students Entering College Fall 2017

\_\_\_\_\_  
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)

- F&W 2600 Ornithology, 5 hrs, lab, s
- F&W 2700 Ichthyology, 4 hrs, lab, s
- M 3200 Medical Microbiology, 4 hrs, f & s
- Bio 3210 Plant Systematics, 4 hrs, lab, s
- Bio 3260W Invertebrate Zoology, 3 hrs, s
- F&W 3660 Mammalogy, 4 hrs, lab, s
- Bio 3710 & 3715 Entomology/Insect Diversity, 5 hrs, lab, f (both required)
- Bio 3750 General Microbiology, 3 hrs, f
- Bio 3760 General Microbiology Lab, 2 hrs, f (must be taken with Bio 3750 or M3200 as pre or co-req)

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

- 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

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

\*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 <i>and</i> 1220 College Physics I <i>and</i> II, 8 hrs     | _____ | _____ |
| Phys 2750 <i>and</i> 2760 University Physics I <i>and</i> 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.

|  |               |
|--|---------------|
| _____<br>Student                         | _____<br>Date |
| _____<br>Advisor                         | _____<br>Date |
| _____<br>Director of Biological Sciences | _____<br>Date |
| _____<br>Dean                            | _____<br>Date |



**COLLEGE OF ARTS AND SCIENCE FOUNDATION (BASIC SKILLS), UNIVERSITY GENERAL EDUCATION AND GRADUATION REQUIREMENTS**  
**BACHELOR OF SCIENCE DEGREE (IN BIOLOGICAL SCIENCES)**  
*(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 <sup>Ed,B</sup>       |                     |          | MATH 1100/1120, 1160, 1180 <sup>Ed,B</sup>       |                     |          |
| WRITING INTENSIVE I (1000+) <sup>Ed,O</sup>      |                     |          | MATH REASONING PROFICIENCY <sup>Ed,B,O</sup>     |                     |          |
| WRITING INTENSIVE II (3000+) <sup>G,O</sup>      |                     |          | CAPSTONE <sup>G,O</sup>                          |                     |          |
| AMERICAN GOVERNMENT OR HISTORY <sup>Ed,B,O</sup> |                     |          | DIVERSITY REQUIREMENT (DI) <sup>O</sup>          |                     |          |
|  |                     |          | 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) <sup>B</sup>

| 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 |   |
|--|------------------------------|-------|--------------|-------------|---|
| <b>AREA 1 — BIOLOGICAL, PHYSICAL, AND MATHEMATICAL SCIENCES</b><br>9 hours minimum covering at least 2 of 3 categories (must include 1 science lab).<br>Examples include <b>Biological</b> : biology, biological anthropology;<br><b>Physical</b> : chemistry, geology, physics;<br><b>Mathematical</b> : mathematics, statistics. |                              |       |              |             | <ul style="list-style-type: none"> <li>• Consult the A&amp;S Advising website for courses that meet A&amp;S Foundation requirements</li> <li>• One non-A&amp;S course can count toward the 2000 level or higher course requirement</li> <li>• Only one non-A&amp;S course may be counted in each of the four areas</li> <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 of the last 36 hours must be taken as MU courses</li> <li>• In order to graduate, students must have the following Grade Point Averages (GPAs):               <ul style="list-style-type: none"> <li>◦ 2.0 cumulative GPA</li> <li>◦ 2.0 major GPA</li> <li>◦ 2.0 minor GPA</li> <li>◦ 2.0 GPA in the final 30 hours</li> <li>◦ 2.0 GPA in the final 60 hours</li> </ul> </li> </ul> |
|  |                              |       |              |             |   |
|  |                              |       |              |             |   |
|  |                              |       |              |             |   |
|  |                              |       |              |             |   |
| <b>AREA 2 — BEHAVIORAL SCIENCES</b><br>5 hours minimum. Examples include anthropology (excluding biological anthropology), psychology and sociology.   |                              |       |              |             |   |
|  |                              |       |              |             |   |
|  |                              |       |              |             |   |
| <b>AREA 3 — SOCIAL SCIENCES</b><br>9 hours minimum covering at least 2 subjects. Examples include economics, geography, history and political science.   |                              |       |              |             |   |
|  |                              |       |              |             |   |
|  |                              |       |              |             |   |
| <b>AREA 4 — HUMANITIES AND FINE ARTS</b><br>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.