

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] <i>Choose 1</i> BIO_SC 3400* Evolution & Ecology (3 hrs, Fall, Sp) BIO_SC 4600 Evolution (3 hrs, Fall, Sp) <i>*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.</i> | | |
| Biological Diversity [SELECT] <i>Choose 1</i> BIO_SC 3750 General Microbiology (3 hrs, Fall) MICROB 3200* Medical Microbiology & Imm. (4 hrs, Fall, Sp) <i>*cannot be used to satisfy the lab requirement</i> | | |
| BIO_SC 3700 Physiology | | |
| BIOCHM 4270 Biochemistry | | |
| Capstone (must complete in last 45 hours) [SELECT] <i>Choose 1</i> 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): | | |
| TOTAL BIOLOGY HOURS | | |
| TOTAL BIOLOGY HRS at 3000+ | | |

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

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| [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*

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| [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)

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| CHEM 1320 or Chem 1400 and 1401 College Chemistry I | | |
| CHEM 1330 or Chem 1410 and 1411 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)

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| [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)

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|----------------------|--|--|
| Calculus: [SELECT] | | |
| Statistics: [SELECT] | | |



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 1050, 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 |
|---------------------|-------|---------------------|-------|---------------------|-------|---------------------|-------|---------------------|-------|
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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 | SEMESTER/ 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 |
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| AREA 2 — BEHAVIORAL SCIENCES 5 hours minimum. Examples include anthropology (excluding biological anthropology), psychology and sociology. | | | | | |
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| AREA 3 — SOCIAL SCIENCES 9 hours minimum covering at least 2 subjects. Examples include economics, geography, history and political science. | | | | | |
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| 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. | | | | | |
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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.