

# MISSOURI WESTERN STATE UNIVERSITY

## Major - Minor Declaration Four Year Program

Student Name \_\_\_\_\_

Address \_\_\_\_\_  
Street City State ZIP

Telephone \_\_\_\_\_ ID# \_\_\_\_\_

Students are expected to read the regulations and policies in both the **University Catalog** and **Student Handbook** and to conform to them. The student, not the University or a member of the faculty or staff, is primarily responsible for knowing the regulations and policies, and for meeting the requirements for a degree or certificate.

**PREPARATORY COURSES** (Do not count towards General Studies. RDG095, MAT081/082/083 or equivalent do not count toward graduation requirements.)

| Based on placement criteria. | Credits | Grade |
|------------------------------|---------|-------|
| MAT 081 or equivalent        | 3       | _____ |
| MAT 082 or equivalent        | 3       | _____ |
| MAT 083 or equivalent        | 3       | _____ |
| ENG 100                      | 3       | _____ |
| RDG 095                      | 3       | _____ |

### GENERAL STUDIES (42-46 Credits)

#### CATEGORY ONE: BASIC SKILLS (12-14 credits)

- MAT110 or MAT112 or MAT116 or MAT130 or MAT137 or MAT147 or MAT167 3/4/5 \_\_\_\_\_
- ENG104 and 108 or ENG112 6 \_\_\_\_\_
- COM104 3 \_\_\_\_\_

#### CATEGORY TWO: NATURAL SCIENCES (8-10 credits)

Minimum of 8 credits from TWO of the following groups.

- BIO101 or 105 5 \_\_\_\_\_
- CHE101(4) or 104(5) or 111(5) 4/5 \_\_\_\_\_
- ESC111 4 \_\_\_\_\_
- PHY101(4) or 107(4) or 110(4) or 210(5) 4/5 \_\_\_\_\_
- PHY104 4 \_\_\_\_\_

#### CATEGORY THREE: SOCIAL SCIENCES (9 credits)

Minimum of 9 credits with at least one course from each of the two following groups.

- ECO101 or 260 or 261 or GEO100 or PSY101 or SOC110 or 120 3 \_\_\_\_\_
- HIS140 or 150 or PSC101 3 \_\_\_\_\_
- Additional course from group 1 or 2 3 \_\_\_\_\_

#### CATEGORY FOUR: HUMANITIES (9 credits)

One course each from three of the following four groups.

- HIS200 or 210 or 230 or HUM203 or 204 or 205 3 \_\_\_\_\_
- ENG210 or 220 or PHL210 or 230 or HUM250 3 \_\_\_\_\_
- ART100 or MUS101 or THR113 3 \_\_\_\_\_
- FRE/GER/SPA100 or any higher level 3-credit language course 3 \_\_\_\_\_

#### CATEGORY FIVE: PHYSICAL HEALTH (4 credits)

- PED101 3 \_\_\_\_\_
- MIL105 or any PE lifetime sports activity class 1 \_\_\_\_\_

### LAS AREAS OF FOCUS Course ID

- LAS Writing Intensive \_\_\_\_\_
- LAS Computer Literacy \_\_\_\_\_

TR beside grade denotes that transfer work fulfills course requirements.

|                                |                                    |    |
|--------------------------------|------------------------------------|----|
| <b>Degree / Program:</b>       | B.S. – Biology                     | 4H |
| <b>Major:</b>                  | Biochemistry and Molecular Biology |    |
| <b>Minor:</b>                  |                                    |    |
| <b>Catalog Year:</b> 2009-2010 | <b>Expires:</b> 2015-2016          |    |

Advisor \_\_\_\_\_ Department \_\_\_\_\_

Student's Signature \_\_\_\_\_ Date \_\_\_\_\_

Advisor's Signature \_\_\_\_\_ Date \_\_\_\_\_

Chairperson's Signature \_\_\_\_\_ Date \_\_\_\_\_

Registrar's Signature \_\_\_\_\_ Date \_\_\_\_\_

### DEGREE REQUIREMENTS

Check when the requirement is completed.

- A minimum of 124 credits is required for graduation (including 60 from a senior college).
- For the baccalaureate degree, 30 of the last 45 credits of course work must be earned at MWSU with a minimum of 30 credits in upper division courses. Lower division transfer courses accepted as meeting upper division departmental course requirements cannot be used to fulfill this requirement.
- Participation in departmental and campus wide assessment efforts is required. Contact the Academic and Student Affairs Office for more information.
- Complete the requirements below.

### MAJOR REQUIREMENTS (80-83 Credits)

|  | Credit       | Grade |
|--|--------------|-------|
| BIO105 Principles of Organismal Biology        | 5            |       |
| BIO106 Principles of Cell Biology              | 4            |       |
| BIO205 Genetics                                | 4            |       |
| BIO225 Evolutionary Ecology                    | 4            |       |
| BIO331 Bioinformatics                          | 2            |       |
| BIO431 Molecular Biology                       | 4            |       |
| CHE111 General Chemistry I                     | 5            |       |
| CHE120 General Chemistry II w/ Qual. Analysis  | 5            |       |
| CHE310 Organic Chemistry I                     | 3            |       |
| CHE311 Organic Chemistry Lab I                 | 2            |       |
| CHE321 Quantitative Analysis                   | 4            |       |
| CHE340 Physical Chem. for the Bio.Sciences (4) | OR<br>4-5    |       |
| CHE383/384 P-Chem: Thermodynamics */Lab (5)    |              |       |
| CHE370 Biochemistry                            | 4            |       |
| CHE470 Biochemistry II                         | 3            |       |
| CHE495 Seminar in Chemistry                    | 2            |       |
| PHY110/ 111 College Physics I/II (8)           | OR<br>8-10   |       |
| PHY210/ 211 University Physics I/II (10)       |              |       |
| MAT167 Calculus w/Analytic Geometry I          | 5            |       |
| <b>TOTAL</b>                                   | <b>68-71</b> |       |

**Electives** - Complete a minimum of **twelve (12)** credits from Biology and/or Chemistry courses numbered 300 or higher:

| <b>TOTAL</b> | <b>12</b> |  |
|--------------|-----------|--|

\*Prerequisite MAT177

CHE383 may not be used as an elective course if CHE340 is taken as a core requirement.

CHE426 may not be taken as an elective if CHE326 is taken.

**This form is not official until signed by the Registrar.**