

# MISSOURI WESTERN STATE UNIVERSITY

## Major Declaration Four Year Program

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

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

Telephone \_\_\_\_\_ G# \_\_\_\_\_

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 |
|------------------------------|---------|-------|
| MAT081 or equivalent         | 3       | _____ |
| MAT082 or equivalent         | 3       | _____ |
| MAT083 or equivalent         | 3       | _____ |
| ENG100                       | 3       | _____ |
| RDG095                       | 3       | _____ |

### GENERAL STUDIES (42-46 Credits)

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

- |   |       |       |
|---|-------|-------|
| 1. MAT110 or MAT112 or MAT116 or MAT130 or MAT137 or MAT147 or MAT167 | 3/4/5 | _____ |
| 2. ENG104 and 108 or ENG112   | 6     | _____ |
| 3. COM104   | 3     | _____ |

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

Minimum of 8 credits from TWO of the following groups.

- |  |     |       |
|--|-----|-------|
| 1. BIO101 or 105                           | 5   | _____ |
| 2. CHE101(4) or 104(5) or 111(5)           | 4/5 | _____ |
| 3. ESC111                                  | 4   | _____ |
| 4. PHY101(4) or 107(4) or 110(4) or 210(5) | 4/5 | _____ |
| 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.

- |  |   |       |
|--|---|-------|
| 1. ECO101 or 260 or 261 or GEO100 or PSY101 or SOC110 or 120 | 3 | _____ |
| 2. HIS140 or 150 or PSC101                                   | 3 | _____ |
| 3. Additional course from group 1 or 2                       | 3 | _____ |

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

One course each from three of the following four groups.

- |  |   |       |
|--|---|-------|
| 1. HIS200 or 210 or 230 or HUM203 or 204 or 205                | 3 | _____ |
| 2. ENG210 or 220 or PHL210 or 230 or HUM250                    | 3 | _____ |
| 3. ART100 or MUS101 or THR113                                  | 3 | _____ |
| 4. FRE/GER/SPA100 or any higher level 3-credit language course | 3 | _____ |

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

- |  |   |       |
|--|---|-------|
| 1. PED101  | 3 | _____ |
| 2. MIL105 or any PE lifetime sports activity class | 1 | _____ |

### LAS AREAS OF FOCUS Course ID

- |                          |       |
|--------------------------|-------|
| 1. LAS Writing Intensive | _____ |
| 2. LAS Computer Literacy | _____ |

TR beside grade denotes that transfer work fulfills course requirements.

|                 |                                    |                    |
|-----------------|------------------------------------|--------------------|
| Degree/Program: | B.S. – Chemistry                   | 6G                 |
| Major:          | Biochemistry and Molecular Biology |                    |
| Minor:          |                                    |                    |
| Catalog Year:   | 2011-2012                          | Expires: 2017-2018 |

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.

1. A minimum of 124 credits is required for graduation (including 60 from a senior college).
2. 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.
3. Participation in departmental and campus wide assessment efforts is required. Contact the Academic Affairs Office for more information.
4. 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/Qualitative Analysis    | 5            |       |
| CHE310  | Organic Chemistry I                            | 3            |       |
| CHE311  | Organic Chemistry Lab I                        | 2            |       |
| CHE321  | Quantitative Analysis                          | 4            |       |
| CHE340  | Physical Chem. for the Biological Sciences (4) | OR<br>4-5    |       |
| *CHE383/384   | P-Chem: Thermodynamics/Lab(5)                  |              |       |
| CHE370  | Biochemistry I                                 | 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> |       |
| <b>Electives</b> – Complete a minimum of <b>twelve (12) credits</b> from Biology 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 CHE 340 is taken in the core requirements.

CHE 426 may not be taken as an elective if CHE 326 is taken.

This form is not official until signed by the Registrar.