

**The University of Montana Western**  
**2015-2016 Catalog**

|                                                                               |
|-------------------------------------------------------------------------------|
| <b>Bachelor of Science: Mathematics</b><br><b>Mathematical Biology Option</b> |
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|             |                     |
|-------------|---------------------|
| <b>Name</b> | <b>Evaluated by</b> |
| <b>ID #</b> | <b>Date</b>         |

|                    |                    |
|--------------------|--------------------|
| <b>Institution</b> | <b>Abbreviated</b> |
| <b>Institution</b> | <b>Abbreviated</b> |
| <b>Institution</b> | <b>Abbreviated</b> |

**Mathematical Biology Option**

**28 Total Required Credits**

**General Education Requirements** (printable worksheet available at [advising.umwestern.edu](http://advising.umwestern.edu))

The following required courses are general education requirements specific to this degree. They will satisfy these particular general education categories:

| Institution    | Accepted |
|----------------|----------|
| For Office Use |          |

**Natural Sciences** (category located on page 2 of your general education worksheet)

|                 |      |     |                                                                                  |                 |   |                                           |                                           |
|-----------------|------|-----|----------------------------------------------------------------------------------|-----------------|---|-------------------------------------------|-------------------------------------------|
| <u>        </u> | BIOB | 160 | Principles of Living Systems                                                     | <u>        </u> | 4 | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> |
|                 |      |     | <i>Prereq: M 095 or higher.</i>                                                  |                 |   |                                           |                                           |
| <u>        </u> | CHMY | 141 | College Chemistry I                                                              | <u>        </u> | 4 | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> |
|                 |      |     | <i>Prereq: M 095 or higher; (high school chemistry or CHMY 121 recommended).</i> |                 |   |                                           |                                           |

**Option**

**16**

|                                                 |      |     |                                                                    |                 |   |                                           |                                           |
|-------------------------------------------------|------|-----|--------------------------------------------------------------------|-----------------|---|-------------------------------------------|-------------------------------------------|
| <u>        </u>                                 | BIOB | 260 | Cellular & Molecular Biology                                       | <u>        </u> | 4 | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> |
|                                                 |      |     | <i>Prereq: BIOB 160.</i>                                           |                 |   |                                           |                                           |
| <u>        </u>                                 | BIOB | 375 | General Genetics                                                   | <u>        </u> | 4 | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> |
|                                                 |      |     | <i>Prereq: BIOB 260 and STAT 121.</i>                              |                 |   |                                           |                                           |
| <u>        </u>                                 | BIOB | 420 | Evolution                                                          | <u>        </u> | 4 | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> |
|                                                 |      |     | <i>Prereq: Junior/Senior standing and BIOB 375.</i>                |                 |   |                                           |                                           |
| <u>        </u>                                 | CHMY | 143 | College Chemistry II                                               | <u>        </u> | 4 | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> |
|                                                 |      |     | <i>Prereq: CHMY 141.</i>                                           |                 |   |                                           |                                           |
| <u>        </u>                                 | CHMY | 321 | Organic Chemistry I                                                | <u>        </u> | 4 | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> |
|                                                 |      |     | <i>Prereq: CHMY 143.</i>                                           |                 |   |                                           |                                           |
| <b>Select TWO of the following: (8 Credits)</b> |      |     |                                                                    |                 |   |                                           |                                           |
| <u>        </u>                                 | BIOB | 425 | Advanced Cell & Molecular Biology                                  | <u>        </u> | 4 | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> |
|                                                 |      |     | <i>Prereq: BIOB 260 and Junior standing. CHMY 321 recommended.</i> |                 |   |                                           |                                           |
| <u>        </u>                                 | BIOM | 260 | General Microbiology                                               | <u>        </u> | 4 | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> |
|                                                 |      |     | <i>Prereq: BIOB 260.</i>                                           |                 |   |                                           |                                           |
| <u>        </u>                                 | CHEM | 441 | Biochemistry                                                       | <u>        </u> | 4 | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> |
|                                                 |      |     | <i>Prereq: CHMY 323 and BIOB 260.</i>                              |                 |   |                                           |                                           |
| <u>        </u>                                 | CHMY | 323 | Organic Chemistry II                                               | <u>        </u> | 4 | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> |
|                                                 |      |     | <i>Prereq: CHMY 321.</i>                                           |                 |   |                                           |                                           |
| <u>        </u>                                 | STAT | 331 | Bioinformatics                                                     | <u>        </u> | 4 | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> |
|                                                 |      |     | <i>Prereq: STAT 121 and BIOB 260.</i>                              |                 |   |                                           |                                           |