

The University of Montana Western
2016-2017 Catalog
Bachelor of Science: Mathematics

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|--------------------|---------------------|
| Name | Evaluated by |
| ID # | Date |
| Institution | Abbreviated |
| Institution | Abbreviated |
| Institution | Abbreviated |

Bachelor of Science: Mathematics

120 Total Required Credits

General Education Requirements (printable worksheet available at advising.umwestern.edu)

31-32 Credits

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

Math 100-Level (category located on page 1 of your general education worksheet)

| | | | | | | | |
|-------|------|-----|--|--|--|--|--|
| _____ | STAT | 121 | Probability | | | | |
| | | | <i>Prereq: M 095 or equivalent ACT or SAT score.</i> | | | | |

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

Mathematics Major Core

48 Credits

| | | | | | | | |
|-------|------|-----|---|--|--|--|--|
| _____ | M | 171 | Calculus I | | | | |
| | | | <i>Prereq: M 112 or evidence of grade C- or higher in high school trigonometry.</i> | | | | |
| _____ | M | 172 | Calculus II | | | | |
| | | | <i>Prereq: M 171 grade B- or higher</i> | | | | |
| _____ | M | 210 | Intro to Math Software | | | | |
| | | | <i>Prereq: STAT 121 grade B- or higher</i> | | | | |
| _____ | M | 221 | Intro to Linear Algebra | | | | |
| | | | <i>Prereq: M 210 grade B- or higher.</i> | | | | |
| _____ | M | 391 | Methods of Data Analysis and Modeling | | | | |
| | | | <i>Prereq: STAT 121 and M 210 grade B- or higher</i> | | | | |
| _____ | M | 343 | Foundations of Mathematics | | | | |
| | | | <i>Prereq: Sophomore standing and M 210 grade B- or higher</i> | | | | |
| _____ | STAT | 437 | Intro to Applied Multivariate Analysis | | | | |
| | | | <i>Prereq: STAT 217 or 233 and M 210 grade B- or higher</i> | | | | |
| _____ | STAT | 391 | Data Mining | | | | |
| | | | <i>Prereq: M 210 and STAT 437 grade B- or higher</i> | | | | |
| _____ | STAT | 433 | Stochastic Modeling | | | | |
| | | | <i>Prereq: STAT 121 and M 210 grade B- or higher.</i> | | | | |
| _____ | STAT | 420 | Advanced Modeling | | | | |
| | | | <i>Prereq: M 210 and STAT 433 grade B- or higher</i> | | | | |

Select **one** of the following: (4 credits)

| | | | | | | | |
|-------|------|-----|---|--|--|--|--|
| _____ | STAT | 217 | Intermediate Statistical Concepts | | | | |
| | | | <i>Prereq: STAT 121 grade C- or higher.</i> | | | | |
| _____ | STAT | 233 | Biostatistics | | | | |
| | | | <i>Prereq: STAT 121 grade C- or higher.</i> | | | | |

Select **one** of the following: (4 credits)

| | | | | | | | |
|-------|---|-----|--|--|--|--|--|
| _____ | M | 490 | Undergraduate Research | | | | |
| | | | <i>Prereq: Senior Standing, c/l, c/pc, and c/vc.</i> | | | | |
| _____ | M | 498 | Internship/Cooperative Education | | | | |
| | | | <i>Prereq: Senior Standing, c/l, c/pc, and c/vc.</i> | | | | |
| _____ | M | 499 | Senior Project/Thesis | | | | |
| | | | <i>Prereq: Senior Standing, c/l, c/pc, and c/vc.</i> | | | | |

