

# BS or BA in Mathematics

Milligan University

Catalog Year

2022-2023

This document is designed as a guide for students planning their course selection and is only a suggested schedule.

Actual course selections should be made with the advice and consent of the academic advisor. While accurately portraying the information contained in the University Catalog, this form is not considered a legal substitute for that document. Students should become familiar with the Catalog in effect at the time in which they enter Milligan.

| FALL SEMESTER 1 |                             |             |
|-----------------|-----------------------------|-------------|
| COURSE          | TITLE                       | CREDITS     |
| BIBL 123        | Old Testament Survey        | 3           |
| HUMN 101        | Ancient & Medieval Cultures | 4           |
| MLGN 100        | Intro to College & Service  | 0.5         |
| MATH 211        | Calculus I <sup>3</sup>     | 4           |
|                 | General Elective            | 3           |
|                 |                             |             |
|                 | <b>TOTAL CREDITS</b>        | <b>14.5</b> |

| SPRING SEMESTER 1 |                                  |           |
|-------------------|----------------------------------|-----------|
| COURSE            | TITLE                            | CREDITS   |
| BIBL 124          | New Testament Survey             | 3         |
| HUMN 102          | Renaissance & Early Modern Cult. | 4         |
| COMP 111          | Rhetorical Composition           | 3         |
| MATH 212          | Calculus II <sup>3</sup>         | 4         |
|                   | General Elective                 | 3         |
|                   |                                  |           |
|                   | <b>TOTAL CREDITS</b>             | <b>17</b> |

| FALL SEMESTER 2 |                                    |           |
|-----------------|------------------------------------|-----------|
| COURSE          | TITLE                              | CREDITS   |
| HUMN 201        | 18th & 19th Century Cult.          | 4         |
| MATH 301        | Intro. to Math Logic               | 3         |
| MATH 303        | Multivariable Calculus             | 4         |
| COMP 211        | Found. Analytical Comp.            | 3         |
| COMM 102        | Speech Communications <sup>1</sup> | 3         |
|                 |                                    |           |
|                 | <b>TOTAL CREDITS</b>               | <b>17</b> |

| SPRING SEMESTER 2 |                                   |             |
|-------------------|-----------------------------------|-------------|
| COURSE            | TITLE                             | CREDITS     |
| HUMN 202          | Cultures of 20th & 21st Centuries | 4           |
| MATH 307          | Linear Algebra                    | 3           |
|                   | Ethnic Studies GER                | 3           |
| MATH              | MATH Elective                     | 3           |
|                   | General Elective <sup>5</sup>     | 3           |
| MLGN 200          | Intro to Calling and Career       | 0.5         |
|                   | <b>TOTAL CREDITS</b>              | <b>16.5</b> |

| FALL SEMESTER 3 |                                |           |
|-----------------|--------------------------------|-----------|
| COURSE          | TITLE                          | CREDITS   |
| CS 211          | Programming Logic              | 3         |
|                 | Lab Science-recommend PHYS 203 | 4         |
| MATH            | Either 411 or 494 <sup>4</sup> | 3         |
| MATH            | MATH Elective 300-400 Level    | 3         |
|                 | Social Learning GER            | 3         |
|                 |                                |           |
|                 | <b>TOTAL CREDITS</b>           | <b>16</b> |

| SPRING SEMESTER 3 |                                                   |           |
|-------------------|---------------------------------------------------|-----------|
| COURSE            | TITLE                                             | CREDITS   |
|                   | General Electives <sup>5</sup>                    | 9         |
|                   | Lab Science-recommend PHYS 204 <sup>2</sup>       | 4         |
| MATH              | Either 308 or 300-400 level elective <sup>4</sup> | 3         |
| EXSC 101          | Fitness for Life                                  | 1         |
|                   |                                                   |           |
|                   | <b>TOTAL CREDITS</b>                              | <b>17</b> |

| FALL SEMESTER 4 |                                |           |
|-----------------|--------------------------------|-----------|
| COURSE          | TITLE                          | CREDITS   |
| BIBL 471        | Christ & Culture               | 3         |
| MATH            | Either 411 or 494 <sup>4</sup> | 3         |
|                 | General Electives <sup>5</sup> | 9         |
|                 |                                |           |
|                 | <b>TOTAL CREDITS</b>           | <b>15</b> |

| SPRING SEMESTER 4                  |                                                   |            |
|------------------------------------|---------------------------------------------------|------------|
| COURSE                             | TITLE                                             | CREDITS    |
| MATH                               | Either 308 or 300-400 level elective <sup>4</sup> | 3          |
|                                    | General Electives <sup>5</sup>                    | 12         |
|                                    |                                                   |            |
|                                    | <b>TOTAL CREDITS</b>                              | <b>15</b>  |
| <b>MINIMUM 128 NEEDED FOR GRAD</b> |                                                   | <b>128</b> |

<sup>1</sup>Students may choose COMM 103 Public Speaking (2 hr) if they have checked with their adviser to see if this fits with their post-bacc plans

<sup>2</sup>Students may choose GNSC 101 Science in Your World (2hr) in place of a 2nd lab science course

<sup>3</sup>It is vital that freshman math majors take Calculus. If they do not take Calculus, they will not graduate on time without summer courses  
*Depending upon a student's post-bacc plans, other courses may be required for admission to graduate programs, so CONSULT with your adviser*

<sup>4</sup>MATH 308, 411, and 494 are required for the math major, but only offered once every two years. Math majors who start in fall of odd years should take MATH 411 in fall junior year, MATH 308 in spring of junior year, and MATH 494 in fall of senior year. Math majors who start in fall of even years should take MATH 494 in fall junior year, MATH 411 in fall of senior year, and MATH 308 in spring of senior year.

<sup>5</sup>The Math BA degree requires foreign language through the intermediate level.

**Preferred MATH Electives are (consult math professors for guidance):**

FALL Courses:

MATH 304 Modern Geometry  
MATH 314 Probability & Statistics I  
MATH 408 Numerical Analysis  
MATH 411 Intro to Real Analysis

SPRING Courses:

MATH 302 Discrete Mathematics  
MATH 308 Modern Algebra  
MATH 309 Differential Equations  
MATH 351 Math Modeling  
MATH 412 Intro to Complex Analysis