

# Mathematics, B.S.

| Course                           | Title                                       | Semester Credit Hours |
|----------------------------------|---------------------------------------------|-----------------------|
| <b>Freshman Year</b>             |                                             |                       |
| <b>Semester 1</b>                |                                             |                       |
| Rhetoric & Composition           |                                             | 3                     |
| American History                 |                                             | 3                     |
| Mathematics <sup>1 &amp; 2</sup> |                                             | 3                     |
| UNIV 1201                        | Learning in Global Context                  | 2                     |
| Life/Physical Sciences           |                                             | 4                     |
| <b>Semester Credit Hours</b>     |                                             | <b>15</b>             |
| <b>Semester 2</b>                |                                             |                       |
| Rhetoric & Composition           |                                             | 3                     |
| American History                 |                                             | 3                     |
| MATH 2413                        | Calculus I <sup>1</sup>                     | 4                     |
| Life/Physical Sciences           |                                             | 4                     |
| <b>Semester Credit Hours</b>     |                                             | <b>14</b>             |
| <b>Sophomore Year</b>            |                                             |                       |
| <b>Semester 1</b>                |                                             |                       |
| MATH 2414                        | Calculus II <sup>1</sup>                    | 4                     |
| Government/Political Science     |                                             | 3                     |
| Creative Arts                    |                                             | 3                     |
| Elective <sup>1</sup>            |                                             | 2                     |
| MATH <sup>1</sup>                |                                             | 3                     |
| <b>Semester Credit Hours</b>     |                                             | <b>15</b>             |
| <b>Semester 2</b>                |                                             |                       |
| MATH 3415                        | Calculus III <sup>1</sup>                   | 4                     |
| Government/Political Science     |                                             | 3                     |
| MATH 1342                        | Elementary Statistical Methods <sup>1</sup> | 3                     |
| Communication                    |                                             | 3                     |
| Social/Behavioral                |                                             | 3                     |
| <b>Semester Credit Hours</b>     |                                             | <b>16</b>             |
| <b>Junior Year</b>               |                                             |                       |
| <b>Semester 1</b>                |                                             |                       |
| Lang/Phil/Culture                |                                             | 3                     |
| MATH 3320                        | Differential Equations <sup>1</sup>         | 3                     |
| MATH 3325                        | Intro Mathematical Proofs (WI) <sup>1</sup> | 3                     |
| Minor                            |                                             | 3                     |
| Minor                            |                                             | 3                     |
| <b>Semester Credit Hours</b>     |                                             | <b>15</b>             |
| <b>Semester 2</b>                |                                             |                       |
| ENGL 2311                        | Technical & Business Writing                | 3                     |
| MATH 3370                        | Discrete Mathematics <sup>1</sup>           | 3                     |
| MATH 4321                        | Real Variables <sup>1</sup>                 | 3                     |
| MATH 4340                        | Modern Algebra <sup>1</sup>                 | 3                     |
| Minor                            |                                             | 3                     |
| <b>Semester Credit Hours</b>     |                                             | <b>15</b>             |
| <b>Senior Year</b>               |                                             |                       |
| <b>Semester 1</b>                |                                             |                       |
| Elective, ADV. <sup>3</sup>      |                                             | 3                     |

|                                     |                                                                  |            |
|-------------------------------------|------------------------------------------------------------------|------------|
| MATH 4341<br>or MATH 4373           | Linear Alg and Matrix Theory<br>or Application of Matrix Methods | 3          |
| MATH/STAT, ADV. <sup>1</sup>        |                                                                  | 3          |
| Minor, ADV. <sup>3</sup>            |                                                                  | 3          |
| Minor/Elective, ADV. <sup>1</sup>   |                                                                  | 3          |
| <b>Semester Credit Hours</b>        |                                                                  | <b>15</b>  |
| <b>Semester 2</b>                   |                                                                  |            |
| Elective <sup>3</sup>               |                                                                  | 3          |
| Elective <sup>1</sup>               |                                                                  | 3          |
| MATH/STAT, ADV. <sup>1</sup>        |                                                                  | 3          |
| MATH/STAT, ADV. <sup>1</sup>        |                                                                  | 3          |
| Minor, ADV. <sup>3</sup>            |                                                                  | 3          |
| <b>Semester Credit Hours</b>        |                                                                  | <b>15</b>  |
| <b>Total Credit Hours Required:</b> |                                                                  | <b>120</b> |

<sup>1</sup> No mathematics or statistics course may be counted toward the degree unless the grade is at least a C.

<sup>2</sup> PHIL 2303 cannot be used to satisfy the mathematics general education requirement.

<sup>3</sup> 39 semester hours of advanced coursework is required.

Minor of 18-24 semester hours in one natural science or computer science.