

## Mathematics, BS

### 4-Year Pathway 2025/26 - 2029/30

| <b>Fall Freshman Courses</b><br><small>Course Prefix and Number</small>    | <b>Course Title</b><br><small>Abbreviate Course Title</small> | <b>Units</b> | <b>Requirements Met</b><br><small>GE/UR/Major</small> |
|--|---|--------------|---|
| <b>MATH 150*</b>   | Calculus I  | 4            | Area 2, Major   |
| FYS 143 OR FYS 145   | Any First Year Seminar with GE                                | 3            | e.g FYS + Area 3B                                     |
| HCOM 125   | English Composition GE  | 3            | Area 1A   |
| HCOM 243   | Ethnic Studies GE   | 3            | Areas 6; US1  |
| Elective   |   | 3            |   |
| <b>Spring Freshman Courses</b><br><small>Course Prefix and Number</small>  | <b>Course Title</b><br><small>Abbreviate Course Title</small> | <b>Units</b> | <b>Requirement Met</b><br><small>GE/UR/Major</small>  |
| MATH 151   | Calculus II   | 4            | Major   |
| HCOM 110   | Oral Communication GE   | 3            | Area 1C   |
| ENVS 201   | Biological Science (with Lab) GE                              | 4            | Area 5B & 5C  |
| BIO 131 OR HCOM 200  | Critical Thinking GE  | 3            | Area 1B   |
| <b>Fall Sophomore Courses</b><br><small>Course Prefix and Number</small>   | <b>Course Title</b><br><small>Abbreviate Course Title</small> | <b>Units</b> | <b>Requirement Met</b><br><small>GE/UR/Major</small>  |
| MATH 230   | Elementary Linear Algebra                                     | 3            | Major   |
| CST 231/L OR CST 319   | Problm-Solving/Programng or Computing Across Disciplines      | 4            | Major and/or Area 2 UDGE                              |
| CART 231, JAPN 213, LS 233   | Arts GE   | 3            | Area 3A   |
| ENVS 282 OR CHEM 109   | Physical Science GE   | 3            | Area 5A   |
| Elective   |   | 3            |   |
| <b>Spring Sophomore Courses</b><br><small>Course Prefix and Number</small> | <b>Course Title</b><br><small>Abbreviate Course Title</small> | <b>Units</b> | <b>Requirement Met</b><br><small>GE/UR/Major</small>  |
| MATH 240   | Elementary Differential Equations                             | 3            | Major   |
| MATH 250   | Multivariate Calculus   | 4            | Major   |
| HCOM 2602 OR SL 210s   | Civics/Service Learning GE                                    | 3            | Area 4, US2&3   |
| Elective*  |   | 5            |   |
| <b>Fall Junior Courses</b><br><small>Course Prefix and Number</small>      | <b>Course Title</b><br><small>Abbreviate Course Title</small> | <b>Units</b> | <b>Requirement Met</b><br><small>GE/UR/Major</small>  |
| MATH 300   | Major Proseminar  | 3            | GWAR, Major   |
| MATH 320   | Applied Probability and Statistics                            | 4            | Major   |

|  |  |              |                                       |
|--|--|--------------|---------------------------------------|
| MATH 322   | Foundations of Modern Math   | 4            | Major                                 |
| CST 274 OR HCOM 265 (If you have not taken US1)          | US History GE  | 3            | Area 4, US1                           |
| <b>Spring Junior Courses</b><br>Course Prefix and Number | <b>Course Title</b><br>Abbreviate Course Title                     | <b>Units</b> | <b>Requirement Met</b><br>GE/UR/Major |
| MATH 330   | Advanced Linear Algebra  | 4            | Major                                 |
| MATH 362S OR MATH/STAT Elective**                        | Service Learning for Mathematics Consultants OR MATH/STAT Elective | 4            | UDSL, Major (Concentration)           |
| Math 420   | Mathematical Analysis I  | 4            | Major (Concentration)                 |
| Any Approved Course                                      | UD C with World Culture & Languages GE                             | 3            | Area 3 UDGE WCL                       |
| <b>Fall Senior Courses</b><br>Course Prefix and Number   | <b>Course Title</b><br>Abbreviate Course Title                     | <b>Units</b> | <b>Requirement Met</b><br>GE/UR/Major |
| MATH 410   | Modern Algebra I   | 4            | Major                                 |
| MATH 421 OR MATH/STAT Elective                           | Mathematical Analysis II or MATH/STAT Course                       | 4            | Major (Concentration)                 |
| MATH 361S or MATH/STAT Elective**                        | Mathematics Tutors OR MATH/STAT Elective                           | 4            | UDSL, Major or Major (Concentration)  |
| STAT 310 or Any Approved Course                          | Data Visualization OR Any Approved Course                          | 3            | Area 2 UDGE, Major                    |
| <b>Spring Senior Courses</b><br>Course Prefix and Number | <b>Course Title</b><br>Abbreviate Course Title                     | <b>Units</b> | <b>Requirement Met</b><br>GE/UR/Major |
| MATH 400   | Capstone Seminar   | 4            | Major                                 |
| MATH 411 or MATH/STAT Elective*                          | Modern Algebra II or MATH/STAT Elective                            | 4            | Major (Concentration)                 |
| Math/Stat Elective                                       | MATH/STAT Elective   | 4            | Major (Concentration)                 |
| Any Approved Course                                      | UD Area 4 Social and Behavioral Sciences GE                        | 3            | Area 4 UDGE                           |

\*Students must complete either MATH 411 or MATH 421

\*\* Students must complete either MATH 361s or MATH 362s