**SAMPLE FOUR-YEAR PLAN FOR MATHEMATICS MAJOR**

Updated: October 2019

Note: Must have a minimum GPA of 2.0 in courses counting towards the major and a C or better in MAT 150, 160, 230, 250 and 260.

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| **FIRST YEAR FALL SEMESTER** | | |  | **FIRST YEAR SPRING SEMESTER** | | | | |
| **Semester 1** | **Title** | **CR** |  | **Semester 2** | **Title** | | | **CR** |
| LIB 101 Engaging Differences (FD) | 3 |  | LIB 102 Engaging Communities (FC) | | | 3 |
| ENG 105 College Writing or ENG 111 Critical Writing (WC) | 3 |  | Explorations Course (EC, EI or ES) | | | 3-4 |
| Explorations Course (EC, EI or ES) | 3-4 |  | Explorations Course (EC, EI or ES) | | | 3-4 |
| MAT 150 Calculus of One Variable I | 4 |  | MAT 160 Calculus of One Variable II | | | 4 |
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| **SECOND YEAR FALL SEMESTER** | | |  | **SECOND YEAR SPRING SEMESTER** | | | | |
| **Semester 3** | **Title** | **CR** |  | **Semester 4** | **Title** | | | **CR** |
| Explorations Course (EC, EI, or ES) | 3-4 |  | Catholic Traditions (CT) Course | | | 3 |
| CSC 115 or equivalent | 4 |  | MAT 220 Probability and Statistics (QR) | | | 3 |
| MAT 250 Linear Algebra | 3 |  | MAT 230 Discrete Mathematics | | | 4 |
| MAT 260 Multivariable Calculus | 4 |  |  | | |  |
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| **THIRD YEAR FALL SEMESTER** | | |  | **THIRD YEAR SPRING SEMESTER** | | | | |
| **Semester 5** | **Title** | **CR** |  | **Semester 6** | **Title** | | | **CR** |
| Values in Action Course (VX) | 3 |  | MAT 390 Seminar | | | 1 |
| MAT 390 Seminar | 1 |  | MAT 310 Ordinary Differential Equations | | | 3 |
| MAT 450 Modern Algebra or MAT 460 Real Analysis | 3 |  | MAT 420 Statistical Learning (if odd year) | | | 3 |
| MAT 380 Modern Geometry or CSC 225/EDU 353/PHY 223 | 3-5 |  |  | | |  |
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| **FOURTH YEAR FALL SEMESTER** | | |  | **FOURTH YEAR SPRING SEMESTER** | | | | |
| **Semester 7** | **Title** | **CR** |  | **Semester 8** | **Title** | | | **CR** |
| Call to Participation Course (CP) | 3 |  | MAT 490 Math Portfolio (IN) | | | 1 |
| MAT 390 Seminar | 1 |  | MAT 420 Statistical Learning (if odd year) | | | 3 |
| MAT 380 Modern Geometry or CSC 225/EDU 353/PHY 223 | 3-5 |  |  | | |  |
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| **JANUARY TERM**  (Students are required to complete a minimum of two January Terms) | | | | | | | | |
| **Title** | | | | | | **CR** | **YEAR** | |
| Elective Course | | | | | | 3 | First Year | |
| Elective course | | | | | | 3 | Any | |

**General Education Course Sequence Information – for traditional FY students**

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| **Course/Category** | **Semester** |
| Engaging Differences (FD) | Always taken in Semester #1 |
| Engaging Communities (FC) | Always taken in Semester #2 |
| College Writing (WC) | Generally taken in Semester #1 or #2 |
| Quantitative Reasoning (QR) | Generally taken in Semesters #1 - #3 |
| Explorations Courses (EC, EI, ES) | Generally taken across semesters #1-#4 |
| Catholic Traditions (CT) | Generally taken in Semester #3 or #4 |
| Values in Action (VX) | Generally taken in Semesters #4 - #6 |
| Call to Participation (CP) | Generally taken in Semesters #6 - #8 |
| Integrative Capstone (IN) | Generally taken in Semesters #6 - #8 |