

# 2021-2021 Mathematics BS Degree Plan

Student name: \_\_\_\_\_ UMID: \_\_\_\_\_ Date: \_\_\_\_\_

Advisor name: \_\_\_\_\_ Concentration: **None**



## The Purpose of General Education is to Gain:

- Knowledge of Human Cultures and the Physical and Natural World
- Intellectual and Practical Skills
- Personal and Social Responsibility
- Integrative and Applied Learning

### Key Courses For General Education (40-44 hours)

1. **Written Composition (6)**  
Choose: ENG 101 or 103. 3 \_\_\_\_\_  
Choose: ENG 102 or 104. 3 \_\_\_\_\_
2. **Humanities & Fine Arts (18)**  
Choose one: ENG 231, 233, 232 or 234.\* 3 \_\_\_\_\_  
\*Students must complete a six-hour sequence in either History or Literature. Students may complete both sequences.  
Choose: COMS 101 or 102. 3 \_\_\_\_\_  
Choose one Fine Arts: ART 100, 218, 219; 3 \_\_\_\_\_  
 MC 100, 325; MUS 121 or 122, 125, 211, 255, 342; THEA 120 or 122.  
Choose one Humanities:  
 ENG 231 or 233, 232 or 234; FRN 101, 102, 150, 201, 202, 250; SPN 101 or 103, 102 or 104, 150, 201, 202, 250; GER 101, 102, 201, 202; PHIL 110 or 111, 180, 220 or 221, 230, 280, 290.  
Choose two of the following (not used above):  
 ART 100, 218, 219; ENG 231 or 233, 232 or 234; 3 \_\_\_\_\_  
 FRN 101, 102, 150, 201, 202, 250; SPN 101 or 103, 102 or 104, 150, 201, 202, 250; GER 101, 102, 201, 202; MC 100, 325; MUS 121 or 122, 125, 211, 255, 342; PHIL 110 or 111, 180, 220 or 221, 230, 280, 290; THEA 120 or 122.
3. **Natural Sciences & Mathematics (12)**  
Choose one lab science from two different disciplines:  
 BIO 100, 105-107; CHEM 100-102, 121, 122; 4 \_\_\_\_\_  
 ES 100; GEOL 110, 115; PHYS 100 or higher. 4 \_\_\_\_\_  
Choose: MATH 170. 4 \*\*
4. **History, Social & Behavioral Sciences (12)**  
Choose one History: HIST 101, 103, 102 or 104.\* 3 \_\_\_\_\_  
\*Students must complete a six-hour sequence in either History or Literature. Students may complete both sequences.  
Choose three of the following not used above:  
 EC 231, 232; FCS 291, 402; GEOG 231; 3 \_\_\_\_\_  
 HIST 101 or 103, 102 or 104; POS 200, 250; 3 \_\_\_\_\_  
 PSYC 201/202; SOC 101/102; SWK 203, 260, 322. 3 \_\_\_\_\_
5. **Personal Development (3)**  
Choose: MATH 261. 3 \*\*

\*\*Indicates requirement is satisfied in major course requirements.

### Additional Requirements for Degree

**Bachelor of Science Requirements**  
 Satisfied through major requirements.

### Major Course requirements (49 hours)

- |   |         |
|---|---------|
| MATH 170 (Calculus I)                       | 4 _____ |
| MATH 171 (Calculus II)                      | 4 _____ |
| MATH 185 (Survey of Mathematics)            | 1 _____ |
| MATH 247 (Intro to Discrete Mathematics)    | 3 _____ |
| MATH 261 (Intro to Prog. & Comp. Alg. Sys.) | 3 _____ |
| MATH 271 (Sequences, Series & Indet. Forms) | 3 _____ |
| MATH 272 (Calculus III)                     | 4 _____ |
| MATH 310 (Foundations of Mathematics)       | 3 _____ |
| MATH 376 (Complex Analysis)                 | 3 _____ |
| MATH 390 (Linear Algebra)                   | 3 _____ |
| MATH 440 (Abstract Algebra)                 | 3 _____ |
| MATH 470 (Real Analysis)                    | 3 _____ |
| MATH 480 (Topology)                         | 3 _____ |
| MATH 484 (Directed Reading in Mathematics)  | 1 _____ |
| MATH 485 (Senior Seminar)                   | 2 _____ |
| MATH Elective (200 level or above)          | 3 _____ |
| MATH Elective (300 level or above)          | 3 _____ |

**Must earn a GPA of 2.0 or higher for all upper-division mathematics courses as well as a major GPA of 2.0 or higher.**

### Additional Requirements (8-12 hours)

- 8 hours at the 200 level or above taken in ONE 4 \_\_\_\_\_  
 of the following: Biology, Chemistry or Physics\* 4 \_\_\_\_\_
- OR choose PHIL 330 and 9 hours from the 3 \_\_\_\_\_  
following: PHIL 110, 180, 250, 280, 290, 3 \_\_\_\_\_  
 300, 440. 3 \_\_\_\_\_  
 3 \_\_\_\_\_

**\*Students who complete the science option will fulfill one of the two lab sciences required for general education.**

### General Electives (15-23 hours)

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

### Minor Course Requirements (Optional)

Title: \_\_\_\_\_ Hrs. Req. \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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\_\_\_\_\_

## GENERAL GRADUATION REQUIREMENTS

- |                                   |  |
|-----------------------------------|--|
| 1. 50% of hrs in major area at UM | 5. 45 hr limit of non-traditional credit                 |
| 2. 30 hrs 300/400 at UM           | 6. 6-hr sequence in history or literature                |
| 3. 30 of last 40 hours at UM      | 7. Capstone experience within major                      |
| 4. 64 hr limit from 2-year school | 8. 2.0 or higher UM GPA and in all major and minor areas |

Total Hours Required:	120
Total Hours Completed to Date:	_____
Hours Remaining for Completion:	_____
Hours Currently Registered:	_____
Hours Remaining:	_____