

2022-2023 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, 120, 220; 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, 120, 220; 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 following: PHIL 110, 180, 250, 280, 290, 300, 440. 3 _____
 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. _____

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: _____