

2017-2018 Mathematics BS Degree Plan

Student name: _____ UMID: _____ Date: _____
 Advisor name: _____ Concentration: None



UNIVERSITY of
MONTEVALLO

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 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 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 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 or higher; CHEM 100 or higher; 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, 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; SOC 101 or 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 additional major requirements.

Major Course requirements (48 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 390 (Linear Algebra) | 3 _____ |
| MATH 470 (Real Analysis) | 3 _____ |
| MATH 484 (Directed Reading in Mathematics) | 1 _____ |
| MATH 485 (Senior Seminar) | 1 _____ |

Complete one of the following two options:

OPTION 1

- | | |
|------------------------------------|---------|
| MATH 376 (Complex Analysis) | 3 _____ |
| MATH 440 (Abstract Algebra) | 3 _____ |
| MATH 480 (Topology) | 3 _____ |
| MATH Elective (200 level or above) | 3 _____ |
| MATH Elective (300 level or above) | 3 _____ |

OPTION 2

- Choose two of the following:
- | | |
|------------------------------------|---------|
| MATH 330 (Numerical Analysis) | 3 _____ |
| MATH 336 (Mathematical Statistics) | 3 _____ |
| MATH 350 (Differential Equations) | 3 _____ |
| MATH Elective (300 level or above) | 3 _____ |
| MATH Elective (300 level or above) | 3 _____ |
| MATH Elective (400 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 hours)

- | | |
|---|---------|
| 8 hours at the 200 level or above taken in <u>ONE</u> | 4 _____ |
| of the following: Biology, Chemistry or Physics | 4 _____ |

General Electives (24 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:	_____