

# 2014-2015 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 (50 hours)

- Written Composition (6)**  
Choose ENG 101 or 103 3\_\_\_\_  
Choose ENG 102 or 104 3\_\_\_\_
- Humanities & Fine Arts (18)**  
Choose one: ENG 231/233 or 232/234\* 3\_\_\_\_  
\*Students must take at least one six hour sequence in Literature or History. Students are free to take both sequences.  
Choose COMS 101 or 102 3\_\_\_\_  
Choose one Fine Arts: ART 100, 218, 219; 3\_\_\_\_  
MC 325; MUS 121/122, 125, 211, 255, 342; 3\_\_\_\_  
THEA 120/122.  
Choose one Humanities:  
ENG 231/233, 232/234; FRN 101, 102, 150, 3\_\_\_\_  
201, 202, 250; SPN 101/103, 102,104, 150,  
201, 202, 250; GER 101, 102, 201, 202; HNRS 309  
PHIL 110/111, 180, 220/221, 230, 280, 290.  
Choose two of the following (not used above):  
ART 100, 218, 219; ENG 231/233, 232/234; 3\_\_\_\_  
FRN/SPN 101, 102, 150, 201, 202, 250; 3\_\_\_\_  
GER 101, 102, 201, 202; HNRS 309; MC 325;  
MUS 121/122, 125, 211, 255, 342; PHIL 110/111,  
180, 220/221, 230, 280, 290; THEA 120/122.
- Natural Sciences & Mathematics (11)**  
Choose one lab science from two different disciplines:  
BIO 100 or higher; CHEM 100 or higher; 4\_ ✓ \_  
GEOL 110, 115; PHYS 100 or higher 4\_\_\_\_  
Choose MATH 170 3\_ ✓ \_
- History, Social & Behavioral Sciences (12)**  
Choose one: HIST 101/103 or 102/104\* 3\_\_\_\_  
\*Students must take at least one six hour sequence in Literature or History. Students are free to take both sequences.  
Choose three of the following not used above:  
EC 231, 232; FCS 291, 402; GEOG 231; 3\_\_\_\_  
HIST 101/103, 102/104; POS 200, 250; PSYC 201; 3\_\_\_\_  
PSYC/SWK 203, 322; SOC 101; SWK 260 3\_\_\_\_
- Personal Development (3)**  
Choose MATH 261 3\_ ✓ \_

## Additional Requirements for Degree

### Bachelor of Science Requirements

*Satisfied through additional major requirements.*

✓ Indicates requirement is satisfied in major course requirements

## GENERAL GRADUATION REQUIREMENTS

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

## MAJOR COURSE REQUIREMENTS (45)

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 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____

## ADDITIONAL REQUIREMENTS (8)

8 hours at the 200 level or above taken in ONE 4\_\_\_\_  
of the following: Biology, Chemistry or Physics 4\_\_\_\_

## MINOR COURSE REQUIREMENTS (Optional)

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

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## GENERAL ELECTIVES

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Total Hours Required:	130
Total Hours Completed to Date:	_____
Hours Remaining for Completion:	_____
Hours Currently Registered:	_____
Hours Remaining:	_____