

# Math B.S. OPTION IV: Traditional Teaching Option

(2016-2017 and 2017-2018 catalogue years)

Student \_\_\_\_\_ CIN \_\_\_\_\_ ADVISOR \_\_\_\_\_

GE Requirements (39-42 units)	Term	Grade	Course Type
<b>Block A: Basic Subjects (9)</b>			
A1 Oral Communication Course =			
A2 Written Communication Course =			
A3 Critical Thinking & composition Course =			
<b>American Institutions (6)</b>			
US History course =			
US Constitution course =			
<b>Block B: Natural Sciences (0)</b>			
Fulfilled by major requirements			
<b>Block C: Arts and Humanities (6)</b>			
C1 Arts Course =			
C2 Humanities Course =			
<b>Block D: Social Sciences (6)</b>			
D1 Course =			
D2 Course =			
<b>Block E: Lifelong Learning and Self Development (3)</b>			
E Course =			
<b>Block F: Upper Division GE from 3 different sub-blocks (9)</b>			
Sub block B Course =			
Sub block C Course =			
Sub block D Course =			
<b>GWAR Requirements (0-3)</b>			
UNIV 400 Writing Proficiency Exam (0) <b>OR</b> UNIV 401 Writing Proficiency (3)			

### VARIOUS GE REQUIREMENTS

- Two civic learning courses (denoted by **cl**) with one being an UD course
- One race/ethnicity course (denoted by **re**) AND one diversity (denoted by **d**) course or another **re** course.
- One writing intensive course (denoted by **WI**).

Above requirements must be fulfilled in GE blocks. Choose accordingly. An IHE course is required of all first-time freshmen. Please see e-catalog for complete GE requirement rules and policies.

### \*RELATED AREA ELECTIVES

If you took CS 2012 for the Group I required course, then select 9 units of Related Area Elective courses from approved list.

If you took PHYS 2200, BIOL 1200, or CHEM 1100 for the Group I required course, then select 7 units of Related Area Elective courses from approved list.

The approved list of ALL electives can be obtained at math dept. webpage.

Major Requirement (81 Units)	Term	Grade
<b>Lower Division Required Courses (33)</b>		
MATH 2170 (3) or CS 2011 (3)		
MATH 2110 Calculus I (4)		
MATH 2120 Calculus II (4)		
MATH 2130 Calculus III (3)		
MATH 2150 Differential Equations (3)		
MATH 2450 Foundations of Mathematics I (3)		
MATH 2550 Introduction to Linear Algebra (3)		
PHYS 2100 General Physics I (5)		
BIOL 1100 - Principles of Biology I (5)		
<b>Upper Division Required Courses (7)</b>		
MATH 3450 Foundations of Mathematics II (4)		
MATH 4650 Analysis I (3)		
<b>Option Specific Required Courses (26-28)</b>		
Math 2740 Introduction to Statistics (3)		
MATH 3950 Field Experience I (2)		
MATH 3960 Field Experience II (2)		
MATH 4300 Modern Geometry (3)		
MATH 4460 Theory of Numbers (3)		
MATH 4550 Modern Algebra (3) <b>OR</b> MATH 4570 Linear Algebra (3)		
MATH 4740 Theory of Probability (3)		
MATH 4901 Capstone Course for Teachers of Mathematics (4) <b>WI course</b>		
Select <i>one</i> course from Group I below (3-5)		
PHYS 2200 General Physics II (5) BIOL 1200 Principles of Biology II (5) CHEM 1100 - General Chemistry I (5) CS 2012 -Introduction to Programming II (3)		
<b>Related Area Electives* (7-9)</b>		
Course1 =		
Course2 =		
Course3 =		
<b>Upper Division Electives (6)</b>		
Course1 =		
Course2 =		

### GRADUATION REQUIREMENTS

Minimum **40** units of upper division courses AND **120** total units are required for graduation. For an extensive list of other graduation requirements, check "academic requirement" in your GET account.