Math B.S. - OPTION II: General Mathematics Option

(for majors from the 2018-2019 catalogue year)

Student_____ CIN_____ ADVISOR_____

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

Major Requirement (81 Units)	Term	Grade
Lower Division Required Courses (33)		
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)		
Upper Division Required Courses (7)		
MATH 3450 Foundations of Mathematics II (4)		
MATH 4650 Analysis I (3)		
Directive Elective Course in Related Areas* (3)		
Course =		
Option Specific Required Courses (19-21)		
MATH 4550 - Modern Algebra I (3)		
MATH 4900 - Senior Seminar in Mathematics (4) *WI course*		
Select one from each of the following groups (12-14)		
Group I: MATH 4200 - Mathematical Logic (3) MATH 4300 - Modern Geometry (3) MATH 4460 - Theory of Numbers (3) MATH 4840 - Graph Theory (3)		
Group II: MATH 4570 - Linear Algebra (3) MATH 4700 - Numerical Analysis I (3) MATH 4720 - Linear Programming (3) MATH 4740 - Theory of Probability (3)		
Group III: MATH 4560 - Modern Algebra II (3) MATH 4660 - Analysis II (3) MATH 4670 - Multivariate Analysis (3) MATH 4680 - Intro. to Complex Analysis (3) MATH 4690 - Topology (3) MATH 4710 - Numerical Analysis II (3) MATH 4750 - Intro. to Mathematical Statistics (3)		
Group IV: 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)		
Directive Elective Courses Related Area Electives* (5-7) (If you took PHYS 2200, BIOL 1200, or CHEM 1100 in Group IV above choose 5 units of approved courses. If you took CS 2012, choose 7 units.)		
Course1 =		
Course2 =		
Upper Division Electives (12)		
Course1 =		
Course2 =		
Course3 =		
Course 4 =		

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**). The above requirements must be fulfilled in GE blocks. Choose accordingly. An IHE course is required of all first-time freshmen.

***DIRECTIVE ELECTIVES IN RELATED AREAS**

The approved list of all approved electives can be obtained at the math dept. website or the online course catalogue.

Graduation Requirements

A 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.