Math B.S. - OPTION III: Integrated Teaching Option

(for majors from the 2018-2019 catalogue year)

GE Requirements (Total 30 units)	Term	Grade	Double counts as
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 Understanding and Self-development (3)			
E Course = AAAS 1001 (suggested for transfer students)**			
Block F: Upper Division Blocks B, C, D (0)			
Fulfilled by major requirements			
GWAR Requirements (0)			
UNIV 400 Writing Proficiency Exam (0)			

An IHE course is required of all first time freshmen.

Major Requirement (Total 105 Units) Math & Credential Courses	Term	Grade	Double counts as
Lower Division Required Courses (36 units)			
MATH 2170 (3) or CS 2011 (3)			
***MATH 2110 Calculus I (4)**			**Block B4**
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)			
Math 2740 Introduction to Statistics (3)			
***PHYS 2100 General Physics I (5)**			**Block B1**
***BIOL 1100 - Principles of Biology I (5)**			**Block B2**

Continued from left column	Term	Grade	Double counts as
Upper Division Required Courses (27 units)			
MATH 3450 Foundations of Mathematics II (4)			
MATH 4650 Analysis I (3)			
***MATH 3950 Field Experience I (2)**			**cl, WI UD GE B**
***MATH 3960 Field Experience II (2)**			**cl, WI UD GE B**
MATH 4300 Modern Geometry (3)			
MATH 4460 Theory of Numbers (3)			
MATH 4550 Modern Algebra (3) **OR** MATH 4570 Linear Algebra (3)			
MATH 4740 Theory of Probability (3)			
MATH 4901 Capstone Course for Teachers of Mathematics (4)			WI
Directive Elective in Related Areas* (3 units)**			
Course1 =			
Credential Required Courses (39 units)			
Block 0: Prerequisite Block (13 units)			
EDCI 4000 -Transformative Teaching in Diverse Urban Classrooms (3)			
EDFN 4200 - Education Foundations: Diversity and Equity in Urban schools (2)			
EDFN 4130 – Introduction to Psychological Foundations of Education (2)			
EDSE 5000 –Transformative Classroom Instruction and Management (3)			
EDSP 4000 –Foundations of Special Education (3)			
Block 1: Developmental Block (9 units)			
EDSE 4301 - Supporting Academic Language Development for English Learners (3)			
***EDSE 4502 -Understanding Academic Language Development (3)**			**UD GE C**
***EDSE 4101- Intersectional Diversity in Families and Students from Urban Schools (3) OR EDFN 3130- Diversity, Intersectionality etc. (3) (Note: Students may be asked to take EDSE 5101 for this requirement)**			**UD GE D and (d)**
Block 2: Instructional Block (9 units)			
EDSE 4212M -Instructional Methods for Secondary School Subjects-Mathematics (3)			
EDCI 4292- 21st Century Assessment Strategies and Processes (3)			
EDSE 5002 –Advanced Secondary Instructional and Management Strategies (3)			
Block 3: Application Block (8 units)			
EDSE 4453 - Directed Teaching in Secondary Schools (5)			
EDSE 4463 - Proseminar: Assessment of Teaching Performance (3)			

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.

***DOUBLE COUNT** The courses shown in bold font double count for certain requirements as shown on right most column.

****DIRECTIVE ELECTIVE IN RELATED AREAS**

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

GE REQUIREMENTS: One race/ethnicity course (re), and one civic learning course (cl), and an IHE course must be fulfilled in lower division GE blocks by freshmen.

***GE certified transfer students do not need IHE course and are advised to choose AAAS 1001 to cover cl and re requirements in GE block E.*

All other requirements (One upper division Civic Learning course (*cl*), two writing intensive courses (WI), and one diversity course (*d*)) are met within the major.

Student Name/CIN/Signature_____

Advisor Name and Signature_____