

Mathematics – Math Education Concentration (B.S.)

The specific mission of the major in Mathematics is to produce a well-trained mathematician capable of both research and teaching in general. In particular, a Howard University-trained mathematician must be comfortable when employed as an actuarial scientist, a computer scientist and/or a mathematician/researcher in schools, government, or industry.

Freshman Year First Semester

Item #	Title	Credits
MATH 156	Calculus I	4
	ENGW 101/102/104	3
	Humanities Elective	3
CSCI 100	Intro to Computer Science	3
FRSM 001	Freshman Seminar	1
	Health Education Requirement (Options: Courses under subject code HHPL)	1
Sub-Total Credits		15

Freshman Year Second Semester

Item #	Title	Credits
MATH 157	Calculus II	4
MATH 101	Proof and Problem Seminar I	1
	ENGW 103/105	3
	Physical Education (Active)	1
	General Electives (Options: To be determined in consultation with advisor) (2)	2
	Humanities Elective	3
Sub-Total Credits		14

Sophomore Year First Semester

Item #	Title	Credits
MATH 158	Calculus III	4
MATH 102	Proof & Prob Seminar II	1
MATH 150	Modern Geometry	3
EDUC 210	Foundations of Urban Education	3
	World Language and Culture Requirement (Options: See Elective 3 Group Descriptions)	3
Sub-Total Credits		14

Sophomore Year Second Semester

Item #	Title	Credits
MATH 180	Intro to Linear Algebra	3
	Social Science Elective	3
	World Language and Culture Requirement (Options: See Elective Group Descriptions)	3
SLMC 101	Principles of Speech	3
CSCI 135	Computer Science I	4
Sub-Total Credits		16

Junior Year First Semester

Item #	Title	Credits
MATH 795	Intro Anal I-Wrtg	3
EDUC 311	Special Educ & Classroom Mgmt	3
	World Language and Culture Requirement (Options: See Elective Group Descriptions)	3
	General Elective (Options: To be determined in consultation with advisor) (3)	3
	General Elective (Options: To be determined in consultation with advisor) (3)	3
Sub-Total Credits		15

Junior Year Second Semester

Item #	Title	Credits
MATH 181	Discrete Structures	3
	Social Science Elective	3
	Philosophy Elective	3
	World Language and Culture Requirement (Options: See Elective Group Descriptions)	3
EDUC 212	Educ Psyc: Lrn & Af Am Lrnrs	3
Sub-Total Credits		15

Senior Year First Semester

Item #	Title	Credits
MATH 189	Probability & Statistics I	3
EDUC 410	Pedagogy & Content Literacy	3
	Social Science Elective	3
	Math Elective (Options: Courses under code MATH) (3)	3
	General Electives (Options: To be determined in consultation with advisor) (4)	4
Sub-Total Credits		16

Senior Year Second Semester

Item #	Title	Credits
EDUC 450	Internship and Classroom Mgmt	9
EDUC 430	Methods & Instruc Tech	3
	Social Science Elective	3
	Sub-Total Credits	15
	Total credits:	120

Category Descriptions

ENGW 101/102/104

Choose between ENGW 101, ENGW 102, OR ENGW 104

Humanities Elective

Health Education Requirement (Options: Courses under subject code HHPL)

ENGW 103/105

Physical Education (Active)

General Electives (Options: To be determined in consultation with advisor) (2)

Humanities Elective

World Language and Culture Requirement (Options: See Elective Group Descriptions)

Foreign Language - Amharic*	3
Foreign Language - Arabic*	3
Foreign Language - Chinese*	3
Foreign Language - French*	3
Foreign Language - German	3
Foreign Language - Haitian Creole* (Options: Courses under code HACR)	3
Foreign Language - Spanish*	3
Foreign Language - Swahili*	3
Foreign Language - Wolof*	3

Social Science Elective

General Elective (Options: To be determined in consultation with advisor) (3)

Philosophy Elective

May take PHIL 051, 053, or 055.

PHIL 051	Principles of Reasoning	3
PHIL 055/057	Intro to Philosophy	3

Math Elective (Options: Courses under code MATH) (3)

General Electives (Options: To be determined in consultation with advisor) (4)