

Mathematics – Actuarial Science (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
CSCI 100	Intro to Computer Science	3
	ENGW 101/102/104	3
FRSM 001	Freshman Seminar	1
	Humanities Course	3
	Physical Education (Active)	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
CSCI 135	Computer Science I	4
	General Elective (Options: To be determined in consultation with 3 advisor) (3)	3
	Sub-Total Credits	15

Sophomore Year - First Semester

Item #	Title	Credits
MATH 158	Calculus III	4
MATH 102	Proof & Prob Seminar II	1
	General Elective (Options: To be determined in consultation with 3 advisor) (3)	3
	World Language and Culture Requirement (Options: See Elective 3 Group Descriptions)	3
	Humanities Course	3
	Sub-Total Credits	14

Sophomore Year - Second Semester

Item #	Title	Credits
MATH 164	Numerical Analysis	3
MATH 180	Intro to Linear Algebra	3
	Philosophy	3
	Principles of Speech	3
	World Language and Culture Requirement (Options: See Elective Group Descriptions)	3
Sub-Total Credits		15

Junior Year - First Semester

Item #	Title	Credits
MATH 189	Probability & Statistics I	3
ECON 001	Principles of Economics I	3
MATH 795	Intro Anal I-Wrtg	3
	World Language and Culture Requirement (Options: See Elective Group Descriptions)	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 190	Probability & Statistics II	3
ECON 002	Principles of Economics II	3
	Social Sciences Course	3
	World Language and Culture Requirement (Options: See Elective Group Descriptions)	3
	General Elective (Options: To be determined in consultation with advisor) (3)	3
Sub-Total Credits		15

Senior Year - First Semester

Item #	Title	Credits
MATH 168	Actuarial Science Lab I	1
	Math Elective (Options: Courses under code MATH) (3)	3
ACCT 201	Accounting Principles I	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		13

Senior Year - Second Semester

Item #	Title	Credits
MATH 193	Actuarial Science Seminar	3
	General Electives (Options: To be determined in consultation with advisor) (4)	4
	General Elective (Options: To be determined in consultation with 3 advisor) (3)	3
	General Elective (Options: To be determined in consultation with 3 advisor) (3)	3
	Physical Education (Active)	1
	General Electives (Options: To be determined in consultation with advisor) (4)	4
	Sub-Total Credits	18
	Total credits:	120

Category Descriptions

ENGW 101/102/104

Choose between ENGW 101, ENGW 102, OR ENGW 104

Humanities Course

Physical Education (Active)

ENGW 103/105

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

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

Philosophy

Principles of Speech

Social Sciences Course

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

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