MOLLOY UNIVERSITY
School of Arts & Sciences
Department of Mathematics and Computer Science

Mathematics B.A. (Students without HS Pre-Calculus)

The Mathematics B.A. provides a strong general foundation in mathematics for students pursuing careers in teaching, industry, or entry into graduate programs. Since the degree offers more free electives, students are encouraged to pursue a second major or a minor in another field of study.

Essential Skills:

Essential skills refer to the knowledge gained from a liberal arts education. They provide a framework to guide students' progress toward their degree, but also prepare students for a broad range of career paths. A recent survey from the Association of American Colleges and Universities (AAC&U) shows employers "strongly agree" that "regardless of a student's field of study" liberal arts skills best prepare students to enter the job market in their career of choice.

1. Critical Thinking:
    a. Make decisions and solve problems using sound, inclusive reasoning and judgment.
2. Equity & Inclusion
    a. Demonstrate the awareness, attitude, knowledge, and skills required to equitably engage and include people from different local and global cultures.
    b. Advocate for inclusion, equitable practices, justice, and empowerment for historically marginalized communities.
3. Information Literacy:
    a. Gather and analyze information from a diverse set of sources and individuals to fully understand a problem.
    b. Manipulate information, construct ideas, and use technology to achieve specific goals.
4. Inquiry and Analysis:
    a. Accurately summarize and interpret information with an awareness of personal biases that may impact outcomes.
    b. Identify appropriate technology for completing specific tasks.
5. Written and Oral Communication:
    a. Understand the importance of and demonstrate verbal, written, and non-verbal/body language, abilities.
    b. Communicate in a clear and organized manner so that others can effectively understand.

Honor Society:

The Math and Computer Science Department at Molloy University offers eligible students membership to Kappa Mu Epsilon, Chapter NY Rho. KME is a national honor society, founded in 1931 to promote the interest of mathematics.

Employment Information

Representative Job Titles Related to this Major Include:

Mathematician, Professor, Teacher, Statistician, Actuary, Financial Analyst, Lawyer, Data Scientist, Economist, and much more.

Representative Employers to the Major Include:

Education, Banking and Finance, Government, Healthcare, Research and Development,

FIRST YEAR			
Fall Courses		**Spring Courses**	
FST 1000	1	MAT 1180	3
HIS/POL/PSY/SOC GEN ED	3	ENG 1100	3
MAT 1150A	3	ART/MUS/COM GEN ED	3
CSC [1030,1200 or 1300]	3	HIS/POL/PSY/SOC GEN ED	3
ART/MUS/COM GEN ED	3	LANGUAGE/LIT GEN ED	3
PED GEN ED	1		
Total Credits	14	Total Credits	16

SECOND YEAR			
Fall Courses		**Spring Courses**	
MAT 2210	4	MAT 2220	4
SCIENCE	3-4	MAT 3240	3
HIS/POL/PYS/SOC GEN ED	3	LANGUAGE/LIT GEN ED	3
MAT 2510	3	ETH GEN ED	3
ELECTIVE	2-3	TRS GEN ED	3
Total Credits	16	Total Credits	16

THIRD YEAR			
Fall Courses		**Spring Courses**	
MAT 2300	4	MAT 2320	3
MAT 2290	3	MAT [2350,3310, 3320, 3350, 3360, 3420, 3470, 3560, or 3610]	3
SCIENCE	3 - 4	ELECTIVE	3
ELECTIVES	5 - 6	CORE	4
Total Credits	16	Total Credits	13

FOURTH YEAR			
Fall Courses		**Spring Courses**	
MAT 3300	3	MAT 3450	3
MAT 4600	3	MAT 4900	3
ELECTIVES	9	ELECTIVES	9
Total Credits	15	Total Credits	15
		Total Credits to Graduate	120

Further Resources:
See the following resources: National Association of Colleges & Employers: Career Readiness Defined, AAC&U, What Can I Do with This Major?, and Molloy Undergraduate Catalog.

Notice:
This 8-semester plan is not a contract, either expressed or implied, between the University and the student, but represents a flexible program of the current curriculum which may be altered periodically to carry out the academic objectives of the University. The University specifically reserves the right to change, delete or add to any 8-semester plan at any time within the student's period of study at the University.