



2022-2023

MATHEMATICS MAJOR, B.A.

Mathematics Department; School of Science, Health & Mathematics

The Mathematics major prepares students for graduate study in mathematics, mathematical physics, or a related area that relies heavily upon theoretical mathematics. Eventual employment opportunities for persons with this background include teaching and research at the college or university level or being a member of a research team in government or industry. The Department has a rich history of graduates who have been successful in graduate school and subsequent academic and research careers.

To graduate must complete all major requirements, foundational requirements, and additional electives needed for 124 hour minimum degree requirement.

MAJOR REQUIREMENTS (55)

__ 4	CSC	121	Data Science I	__ Lab	
__ 4	CSC	122	Data Science II	__ Lab	
__ 4	MAT	181	Calculus I	__ Lab	
__ 4	MAT	182	Calculus II	__ Lab	
__ 4	MAT	183	Calculus III	__ Lab	
__ 3	MAT	241	Logic & Sets		
__ 3	MAT	252	Diff Equations/Modeling		
__ 3	MAT	271	Linear Algebra		
__ 3	MAT	281	Probability		
__ 3	MAT	350	Mathematical Modeling		
__ 3	MAT	442	Numerical Analysis		
__ 3	MAT	471	Abstract Algebra		
__ 1	MAT	475	Senior Seminar		
__ 3	MAT	482	Complex Analysis		
__ 5	PHY	211	Gen Physics I	__ Lab	__ Recitation
__ 5	PHY	212	Gen Physics II	__ Lab	__ Recitation

PLUS FOUNDATIONAL REQUIREMENTS (49)

(3 hours Math and 4 hours Science satisfied by required major courses.)

Plus electives needed for the 124 hour degree requirement (20)