



2021-2022

## 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	351	Applied Math I		
__ 3	MAT	352	Applied Math II		
__ 3	MAT	471	Abstract Algebra		
__ 1	MAT	475	Senior Seminar		
__ 3	MAT	481	Real Analysis		
__ 3	MAT	482	Complex Analysis		
__ 5	PHY	211	Gen Physics I	__ Lab	__ Recitation
__ 5	PHY	212	Gen Physics II	__ Lab	__ Recitation

### PLUS FOUNDATIONAL REQUIREMENTS (43)

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

### Plus electives needed for the 124 hour degree requirement (26)