



2018-2019

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## 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 (39)

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

### Plus electives needed for the 124 hour degree requirement (30)