

About Us

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Admissions Academics

**Campus Life** 

Athletics Research

2018-2019 Undergraduate and Graduate Academic Catalog -

Catalog Search		
ntire Catalog	Mathematics M.S.	* 🖻 ?
arch Catalog	Mathematics, M.S.	
anced Search		
	🗇 Return to: Undergraduate & Graduate Degrees	
atalog Home	The degree of Master of Science with a major in mathematics is designed to advance the stud	lent's
out the University	independent study and research. Completion should enable the student to pursue a more adv degree, teach mathematics at the secondary or college level, or use mathematical techniques	vanced in a
eges & Curriculum Pages	scientific or industrial environment.	
rgraduate & Graduate	Prerequisites	
	The admission decision for a prospective student will be based on the Graduate Record Ex	amination
ergraduate Minors	scores, the student's record in undergraduate mathematics or statistics, and letters of recommendation. At least nine semesters hours beyond calculus, with courses in advanced	d calculus
eral Education Courses	and linear algebra when possible, should be included in the undergraduate program.	
rse Descriptions	Course Requirements	
norraduata Studiac	The M.S. has thesis and non-thesis tracks.	
ergraduate ocudies	Thesis Track:	
uate School		
es	The thesis track requires twenty-four semester hours of course work and the preparati thesis (for which six hours credit is given). A minimum of twelve semester hours in mar courses above the 400(G)-level are required.	on of a thematics
ams & Services	Non-thesis Track:	
mic Administration	The non-thesis track requires thirty-six semester hours of graduate course work, of w	hich a
lency and Tuition lations for Veterans	minimum of eighteen hours must be above the 400(G)-level. The student may concent applied mathematics by taking courses in differential equations, numerical analysis, an or in pure mathematics by taking courses in algebra, analysis, and topology.	rate in d statistics
Catalog	Required Courses	
	Information about specific required courses can be obtained from the department's gra	aduate
	coordinator. All programs of study must be approved in advance by the coordinator.	
	In either track, a student must complete at least one of the two-semester sequences:	
	<ul> <li>MATH 535 - Topology   3 Credit(s).</li> </ul>	

- MATH 536 Topology II 3 Credit(s).
- MATH 537 Algebraic Topology I 3 Credit(s).
- MATH 538 Algebraic Topology II 3 Credit(s).
- MATH 555 Numerical Analysis I 3 Credit(s).
- MATH 556 Numerical Analysis II 3 Credit(s).
- MATH 561 Linear Algebra and Applications | 3 Credit(s).
- MATH 562 Linear Algebra and Applications II 3 Credit(s).



- MATH 565 Abstract Algebra I 3 Credit(s).
- MATH 566 Abstract Algebra II 3 Credit(s).
- MATH 573 Real and Functional Analysis I 3 Credit(s).
- MATH 574 Real and Functional Analysis II 3 Credit(s).
- MATH 575 Complex Analysis I 3 Credit(s).
- MATH 576 Complex Analysis II 3 Credit(s).
- MATH 583 Ordinary Differential Equations I 3 Credit(s).
- MATH 584 Ordinary Differential Equations II 3 Credit(s).
- MATH 595 Partial Differential Equations | 3 Credit(s).
- MATH 596 Partial Differential Equations II 3 Credit(s).
- STAT 521 Applied Regression Analysis and Experimental Design 3 Credit(s).
- STAT 522 Experimental Design 3 Credit(s).
- STAT 523 Mathematical Statistics | 3 Credit(s).
- STAT 524 Mathematical Statistics II 3 Credit(s).
- STAT 530 Linear Models 3 Credit(s).
- STAT 535 Applied Multivariate Analysis 3 Credit(s).

## **Other Requirements**

Candidates must pass a comprehensive examination covering the student's course work and also basic topics from certain standard areas such as advanced calculus and linear algebra. The examination may be partly written and partly oral; when a thesis is written, part of the oral portion of the examination is a defense of the thesis.

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