MATHEMATICS, GCRT

Requirements for Students Matriculating in or before Academic Year 2023-2024. Learn more about Graduate College Academic Regulation 7.0 (http://catalog.okstate.edu/graduate-college/#70).

Total Hours: 12

Code	Title	Hours
Requirements		
Select 12 hours of 12 graduate credit math courses (course numbers 5000 or above). No thesis hours allowed (MATH 5000 or MATH 6000). Credits must be transferrable to OSU.		12
At most 3 hours can be taken from the following list:		
MATH 5033	History of Mathematics	
MATH 5073	Introduction to Analysis	
MATH 5083	Intermediate Analysis	
MATH 5203	Intermediate Differential Equations	
MATH 5263	Introduction to Partial Differential Equations	
MATH 5273	Complex Variables	
MATH 5343	Introduction to Topology	
MATH 5423	Geometry and Algorithms in Three-Dimensional Modeling	
MATH 5453	Mathematical Interest Theory	
MATH 5503	Introduction to Optimization	
MATH 5513	Introduction to Numerical Analysis	
MATH 5673	Combinatorics	
MATH 5713	Number Theory	
MATH 5753	Introduction to Cryptography	
MATH 5803	Groups and Representations	
Recommended courses for PhD students:		
MATH 5023	Advanced Linear Algebra	
MATH 5043	Advanced Calculus I	
MATH 5053	Advanced Calculus II	
MATH 5143	Real Analysis I	
Recommended courses for electrical engineering students interested in Artificial Intelligence:		
MATH 5073	Introduction to Analysis	
MATH 5513	Introduction to Numerical Analysis	
MATH 5533	Matrix Methods in Machine Learning	
MATH 5553	Numerical Analysis for Linear Algebra	
Recommended courses for students in math education and teaching undergraduate mathematics:		
MATH 5003	Abstract Algebra I	
MATH 5023	Advanced Linear Algebra	
MATH 5083	Intermediate Analysis	
MATH 5913	Introduction to Research in Mathematics Education	
Recommended for any student pursuing a graduate certificate:		
MATH 5023	Advanced Linear Algebra	
Total Hours		**12**

Other Requirements

- No grade below B
- Minimum 9 hours in residence at OSU

Admission Requirements

- Bachelor's degree with a GPA of 3.0 and relevant prerequisite coursework to enroll in graduate math classes

Graduate College Certificate Requirements

Learn more about Graduate College 2023-2024 Graduate Certificate Program Requirements (http://catalog.okstate.edu/graduate-college/). Check the General Graduate College academic regulations for minimal GPA, language proficiency and other general requirements.