## MATHEMATICS, PHD

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: 60 (Beyond the Master's Degree)

Code	Title	Hours	
Core Courses			
Select 15 hours from	one of the following tracks:	15	
Applied			
MATH 5023	Advanced Linear Algebra		
MATH 5143	Real Analysis I		
MATH 5283	Complex Analysis I		
MATH 5543	Numerical Analysis for Differential Equations		
MATH 5233	Partial Differential Equations		
Pure			
MATH 5023	Advanced Linear Algebra		
MATH 5143	Real Analysis I		
MATH 5283	Complex Analysis I		
MATH 5613	Algebra I		
MATH 5313	Geometric Topology		
Mathematics Educati	on		
MATH 5023	Advanced Linear Algebra		
Select 9 hours from	the following:		
MATH 5143	Real Analysis I		
MATH 5283	Complex Analysis I		
MATH 5613	Algebra I		
MATH 5313	Geometric Topology		
MATH 5543	Numerical Analysis for Differential Equations		
MATH 5233	Partial Differential Equations		
Select one of the foll	Select one of the following:		
STAT 5023	Statistics for Experimenters II		
STAT 5063	Statistical Machine Learning with R		
Hours Subtotal		15	
Additional Math Courses			
Select 12 hours from	track used for core courses.	12	
Applied			
In addition to the core course requirements, every plan of study must contain at least 12 hours of graduate courses in the mathematical sciences (mathematics, statistics, or computer			

Pure

science).

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Mathematics Education		
MATH 5913	Introduction to Research in Mathematics Education	
MATH 6923	Research in Undergraduate Mathematics Education	

Select 6 hours from the following:

Total Hours		60	
Hours Subtotal		27	
Select 15-24 hours	s.		
Dissertation			
Select 3-12 hours.			
Electives			
Combination of electives and dissertation hours to total 27 hours.			
Additional Graduate Courses			
Hours Subtotal		6	
MATH 6090	Doctoral Research Project	3	
MATH 6010	Advanced Seminar in Mathematics (Reading course with advisor)	3	
Preliminary Research	Project		
Hours Subtotal		12	
REMS 5953	Statistical Methods in Education		
EPSY 5463	Psychology of Learning		
SCFD 6123	Qualitative Research I		
SCFD 6113	Theoretical Foundations of Inquiry		
ocicci o nours nom t	ne ronowing.		

## Graduate College Doctor of Philosophy (PhD) Requirements

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