

MATHEMATICS, MS

Requirements for Students Matriculating in or before Academic Year

2019-2020. Learn more about Graduate College Academic Regulation 7.0 (<http://catalog.okstate.edu/graduate-college>).

Thesis Option

Total Hours: 33 Hours

Code	Title	Hours
Core Courses		
MATH 5043	Advanced Calculus I	3
or MATH 5023	Advanced Linear Algebra	
MATH 5543	Numerical Analysis for Differential Equations	3
or MATH 5553	Numerical Analysis for Linear Algebra	
Select 12 hours from the following:		12
MATH 4233	Intermediate Differential Equations	
MATH 4513	Numerical Analysis	
MATH 4553	Introduction to Optimization	
MATH 5213	Fourier Analysis and Wavelets	
MATH 5233	Partial Differential Equations	
MATH 5243	Ordinary Differential Equations	
MATH 5253	Advanced Ordinary Differential Equations	
MATH 5543		
MATH 5553	Numerical Analysis for Linear Algebra	
MATH 5563	Finite Element Methods for Partial Differential Equations	
MATH 5580	Case Studies in Applied Mathematics	
MATH 5593	Methods of Applied Mathematics	
Hours Subtotal		18
Additional Graduate Courses		
<i>Electives</i>		
Select 9 hours of electives (no more than 6 hours can be outside MATH, STAT or CS).		9
<i>Thesis/Report</i>		
MATH 5000	Master's Research and Thesis (3-6 hours in combination with electives)	6
Hours Subtotal		15
Total Hours		33

Non-Thesis Option

Total Hours: 33 Hours

Code	Title	Hours
Core Courses		
MATH 5043	Advanced Calculus I	3
or MATH 5023	Advanced Linear Algebra	
MATH 5543	Numerical Analysis for Differential Equations	3
or MATH 5553	Numerical Analysis for Linear Algebra	
Select 12 hours from the following:		12
MATH 4233	Intermediate Differential Equations	
MATH 4513	Numerical Analysis	

MATH 4553	Introduction to Optimization	
MATH 5213	Fourier Analysis and Wavelets	
MATH 5233	Partial Differential Equations	
MATH 5243	Ordinary Differential Equations	
MATH 5253	Advanced Ordinary Differential Equations	
MATH 5543		
MATH 5553	Numerical Analysis for Linear Algebra	
MATH 5563	Finite Element Methods for Partial Differential Equations	
MATH 5580	Case Studies in Applied Mathematics	
MATH 5593	Methods of Applied Mathematics	
Hours Subtotal		18
Additional Graduate Courses		
<i>Electives</i>		
Select 12 hours of electives (no more than 6 hours can be outside MATH, STAT or CS).		12
<i>Thesis/Report</i>		
MATH 5000	Master's Research and Thesis (3-6 hours in combination with electives)	3
Hours Subtotal		15
Total Hours		33

General Graduate College Requirements

- A minimum Grade-Point-Average of 3.00 is required
- A minimum Grade of "C" is required in all degree applicable courses
- No courses utilizing the Pass-No Pass grading system are permitted
- GRAD 5082 or GRAD 5092 may not be used to meet degree requirements

Additional Graduate College Masters Degree Requirements

Plan I (coursework with thesis)

- A minimum of 30 credit hours
 - A minimum of 24 coursework credit hours comprised of:
 - 6 research or creative component credit hours
 - 21 in-residence credit hours (maximum of 9 transfer hours with "B" or better)
 - 21 credit hours at 5000- or 6000-level

Plan II (coursework without thesis)

- A minimum of 32 credit hours
 - A maximum of 3 credit hours of research or creative component
 - A minimum of 23 in-residence credit hours (maximum of 9 transfer credit hours with "B" or better)
 - A minimum of 21 credit hours at the 5000- or 6000-level