MATHEMATICS, PhD

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).

Total Hours: 60 Hours (Beyond the Master’s Degree)

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Core Courses
Select 15 hours from one of the following tracks:

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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 Education
- MATH 5023 Advanced Linear Algebra
- 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 following:
- STAT 5023 Statistics for Experimenters II
- STAT 5063 Multivariate Methods

Hours Subtotal: 15

Additional Math Courses
Select 12 hours from track used for core courses.

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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 science).

Pure
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 science).

Mathematics Education
- MATH 5913 Introduction to Research in Mathematics Education

Hours Subtotal: 12

Preliminary Research Project
- MATH 6010 Advanced Seminar in Mathematics (Reading course with advisor)
- MATH 6090 Doctoral Research Project

Hours Subtotal: 6

Additional Graduate Courses
Combination of electives and dissertation hours to total 27 hours.

Electives
Select 3-12 hours.

Dissertation
Select 15-24 hours.

Hours Subtotal: 27

Total Hours: 60

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 Doctor of Philosophy (PhD.) Requirements
- 90 credits beyond the Bachelor's degree, 60 credits beyond the Master's degree are required
- At least seventy-five percent of coursework on the Plan of Study must include 5000 and 6000 level courses
- A minimum of 15 hours at the 6000 level with a grade of SR for the doctoral dissertation must be complete. The maximum number of dissertation hours (6000 with a grade of SR) permissible on a Plan of Study must not exceed three-fourths of the total credit hours in the approved graduate degree program
- Credit for all courses on a graduate Plan of Study must have been awarded within 10 years of completion of all degree requirements
- A minimum of 30 in-residence credit hours are required
- Non-Course requirements:
  - Doctoral Candidacy
  - Dissertation Defense
  - Dissertation Submission/Approval