

# APPLIED MATHEMATICS, MS

## Admission Requirements

In addition to the graduate application and official transcripts applicants must submit three letters of recommendation and a statement of purpose. Applications are accepted on a rolling basis.

## Goals

This program is designed to train students in the formulation, analysis, and solution of mathematical models in a variety of application areas.

## Administration

Upon admission to the program, each student will undergo a review process to determine competency in undergraduate core mathematical areas and background in at least one junior-level or higher course in engineering or physics. If necessary, the appropriate course(s) will be added to the required course list for the student.

## Program Requirements

A minimum of 30 graduate credits, after the completion of deficiency courses, is required.

## Core Requirements

Code	Title	Hours
<b>Core Courses</b>		
MATH:621	Real Analysis	3
MATH:627	Advanced Numerical Analysis I	3
MATH:633	Methods of Applied Mathematics I	3
<i>Group 1</i>		
Select at least one of the following:		3
MATH:625	Analytic Function Theory	
MATH:628	Advanced Numerical Analysis II	
MATH:632	Advanced Partial Differential Equations	
<i>Group 2</i>		
Select at least two of the following:		6
MATH:634	Methods of Applied Mathematics II	
MATH:635	Optimization	
MATH:730	Advanced Numerical Solution of Partial Differential Equations	
<b>Thesis/Nonthesis Option</b>		
Complete Thesis Option or Nonthesis Option		12
<b>Total Hours</b>		<b>30</b>

## Thesis Option

In addition to the placement review and core requirements, at least six credits of electives approved by the graduate adviser, three credits of MATH:692 Seminar in Mathematics, and three credits of MATH:699 Master's Thesis must be completed.

## Nonthesis Option

In addition to the placement review and core requirements, at least twelve credits of electives approved by the graduate adviser must be completed.