Mathematics M.S.  
2016-2017

Mathematics Core Requirements (18 hours)

MATH 5131 Abstract Algebra
MATH 5132 Real Analysis
MATH 5136 Ordinary Differential Equations and Dynamical Systems
MATH 5137 Topology and Geometry

Or

MATH 5333 Numerical Analysis

Students will select an additional two courses from the following (courses not already satisfying the requirements above):

MATH 5133 Complex Analysis
MATH 5134 Logic
MATH 5137 Topology and Geometry
MATH 5231 Linear Algebra
MATH 5330 Mathematical Software and Modeling Simulation
MATH 5333 Numerical Analysis
MATH 5431 Mathematical Modeling in The Applied Sciences
STAT 5431 Theory and Application of Probability

Mathematics Thesis Option (15 hours)

3 hours of MATH/STAT courses 5000-6000 level
6 hours of MATH electives 4000-6000 level
MATH 6939 Master's Thesis Research

Mathematics Extended Course Work Option (15 hours)

3 hours of MATH/STAT courses 5000-6000 level
6 hours of MATH electives 4000-6000 level
MATH 6837 Research Project I
MATH 6838 Research Project II

With advisers approval, two of the following may count towards the Master's Degree as a 4000-level elective, if taken as a graduate student at UHCL:

MATH 4341 Introduction to Analysis
MATH 4322 Introduction to Abstract Algebra
MATH 4313 Introduction to Topology