Mathematics M.S./Statistics M.S.

Dual Master Degrees

The graduate plan in Mathematics and Statistics leads to a Master of Science (M.S.) degree in Mathematics and a Master of Science (M.S.) degree in Statistics. This plan emphasizes a curriculum that is designed to educate students in both Mathematics and Statistics. The plan is suitable for students with degrees in engineering, science or other fields with an undergraduate background in mathematics.

Degree Requirements

Math/Stat Core Requirements (33 hours)

The following courses or their approved substitutes are required:

- **MATH 5131** Abstract Algebra
- **MATH 5132** Real Analysis
- **MATH 5136** Ordinary Differential Equations and Dynamical Systems
- **MATH 5231** Linear Algebra
- **STAT 5431** Advanced Probability
- **STAT 5432** Principles of Statistical Inference
- **STAT 5531** Multivariate Statistical Analysis
- **STAT 5532** Linear Models and Regression Analysis
- **STAT 5533** Statistical Computing

Students will select two courses from the following six courses:

- **MATH 5133** Complex Analysis
- **MATH 5134** Logic
- **MATH 5137** Topology and Geometry
- **MATH 5232** Number Theory
- **MATH 5333** Numerical Analysis
- **MATH 5431** Mathematical Neuroscience

Credit Hours: 3

Math/Stat Thesis Option (27 hours)

15 hours of MATH/STAT courses 5000–6000 level6 hours of MATH/STAT electives 4000–6000 levelSelect one of the following:

- **MATH 6939** Master’s Thesis Research
- **STAT 6939** Master’s Thesis Research

Credit Hours: 3

Additional Information

Student

Math/Stat Extended Course Work Option (27 hours)

Students desiring to follow the extended course work option must complete Research Project I and II (MATH 6837/MATH 6838 or STAT 6837/STAT 6838) during the last 18 hours of course work.

One of the following groups:

**Group 1:**
- **MATH 6837** Research Project I
- **MATH 6838** Research Project II

**Group 2:**
- **STAT 6837** Statistics Research and Consulting I
- **STAT 6838** Statistics Research and Consulting II

Credit Hours: 3
Additional Information

At least six of these nine credit hours have to be in the field in which the thesis or research project is done.