MATHEMATICS MINORS

The following minors are offered by the Mathematics Department.

PURE MATHEMATICS

Requirements
- MATH 23 Calculus III
- MATH 242 Linear Algebra
- MATH 243 Algebra
- MATH 301 Principles of Analysis I
- One Elective of
  - MATH 302 Principles of Analysis II
  - MATH 303 Mathematical Logic
  - MATH 307 Topology
  - MATH 316 Complex Analysis
  - MATH 319 Introduction to Differential Equations
  - MATH 320 Ordinary Differential Equations
  - MATH 327 Groups and Rings
  - MATH 331 Differential Geometry of Curves and Surfaces
  - MATH 342 Number Theory

APPLIED MATHEMATICS

Requirements
- MATH 23 Calculus III
- MATH 341 Mathematical Models and Their Formulation
- Three Electives of
  - MATH 205 Linear Methods
  - MATH 208 Complex Variables
  - MATH 230 Numerical Methods
  - MATH 231 Probability and Statistics
  - MATH 241 Applied Linear Algebra
  - MATH 242 Linear Algebra
  - MATH 263 Introduction to the Theory of Probability
  - MATH 264 Introduction to Statistical Reasoning and Methods
  - MATH 319 Introduction to Differential Equations
  - MATH 320 Ordinary Differential Equations
  - MATH 322 Methods of Applied Analysis I
  - MATH 323 Methods of Applied Analysis II
PROBABILITY AND STATISTICS
Requirements
- **Calculus:**
  - MATH 23  Calculus III
  - or MATH 52  Survey of Calculus II
  - or MATH 82  Mathematics for Analytical Finance

- **Probability:**
  - MATH 263  Introduction to the Theory of Probability
  - or MATH 309  Theory of Probability

- **Statistics:**
  - MATH 012  Basic Statistics
  - or MATH 231  Probability and Statistics
  - or MATH 264  Introduction to Statistical Reasoning and Methods

- Two Electives of
  - MATH 310  Random Processes and Applications
  - MATH 312  Statistical Computing and Applications
  - MATH 334  Mathematical Statistics
  - MATH 338  Linear Models in Statistics with Applications

ACTUARIAL SCIENCE
Requirements
- **Calculus:**
  - MATH 23  Calculus III
  - or MATH 52  Survey of Calculus II
  - or MATH 82  Mathematics for Analytical Finance

- **Probability:**
  - MATH 263  Introduction to the Theory of Probability
  - or MATH 309  Theory of Probability

- **MATH 310**  Random Processes and Applications
- **MATH 202**  Actuarial Exam I
- **MATH 203**  Actuarial Exam II – Financial Mathematics

- One Elective of
  - ACCT 108  Fundamentals of Accounting
  - ACCT 151  Introduction to Financial Accounting
  - ECO 119  Intermediate Macroeconomic Analysis
  - ECO 146  Applied Microeconomic Analysis