

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