GENERAL CURRICULUM IN MATHEMATICS

This is the default curriculum required for students who do not declare a concentration.

STAT 301  Statistics I  4
or STAT 305  Introduction to Probability and Simulation
or STAT 425  Probability Theory

Tracks

Choose three tracks from the following list, with at least one track chosen from the first four tracks listed. A track consists of two paired courses representing depth of study with a particular focus.¹

MATH 413  &  MATH 414  Introduction to Analysis II
MATH 482  &  MATH 483  Abstract Algebra II
or MATH 406  Linear Algebra III

MATH 406  &  MATH 413  Linear Algebra III
or MATH 440  Topology I

MATH 482  &  MATH 413  Abstract Algebra II
or MATH 440  Topology I

MATH 304  &  MATH 404  Vector Analysis

MATH 335  &  MATH 435  Graph Theory

MATH 344  &  MATH 416  Linear Analysis II
or MATH 418  Partial Differential Equations

MATH 350  &  MATH 341  Mathematical Software
or MATH 344  Linear Analysis II

MATH 408  &  MATH 409  Complex Analysis I
MATH 437  &  MATH 453  Euclidean Geometry
or MATH 443  Modern Geometries

MATH 451  &  MATH 452  Numerical Analysis I
MATH 440  &  MATH 444  Introduction to Differential Geometry

MATH 302  &  MATH 303  Introduction to Probability and Simulation

MATH 425  &  MATH 426  Probability Theory

Select from the following approved electives: 16
CSC/CPE 202  Data Structures
CSC/CPE 203  Project-Based Object-Oriented Programming and Design
CSC 349  Design and Analysis of Algorithms
MATH 304  Vector Analysis
MATH 335  Graph Theory
MATH 341  Theory of Numbers
MATH 344  Linear Analysis II

Total units  44

¹ A single course cannot be used to satisfy multiple tracks.
² Maximum 8 units combined between MATH 475 and MATH 476.