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

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.

- MATH 413 & MATH 414  Introduction to Analysis II and Introduction to Analysis III
- MATH 482 & MATH 483  Abstract Algebra II and Abstract Algebra III
  or MATH 406  Linear Algebra III
- MATH 406 & MATH 413  Linear Algebra III and Introduction to Analysis II
  or MATH 440  Topology I
- MATH 482 & MATH 413  Abstract Algebra II and Introduction to Analysis II
  or MATH 440  Topology I
- MATH 304 & MATH 404  Vector Analysis and Introduction to Differential Geometry
- MATH 335 & MATH 435  Graph Theory and Discrete Mathematics with Applications I
- MATH 344 & MATH 416  Linear Analysis II and Differential Equations II
  or MATH 418  Partial Differential Equations
- MATH 341 & MATH 437  Theory of Numbers and Game Theory
- MATH 408 & MATH 409  Complex Analysis I and Complex Analysis II
- MATH 442 & MATH 443  Euclidean Geometry and Modern Geometries
- MATH 451 & MATH 452  Numerical Analysis I and Numerical Analysis II
  or MATH 453  Numerical Optimization
- MATH 404  Introduction to Differential Geometry
- MATH 406  Linear Algebra III
- MATH 408  Complex Analysis I
- MATH 409  Complex Analysis II
- MATH 413  Introduction to Analysis II
- MATH 414  Introduction to Analysis III
- MATH 416  Differential Equations II
- MATH 418  Partial Differential Equations
- MATH 419  Introduction to the History of Mathematics
- MATH 435  Discrete Mathematics with Applications I
- MATH 437  Game Theory
- MATH 440  Topology I
- MATH 442  Euclidean Geometry
- MATH 443  Modern Geometries
- MATH 451  Numerical Analysis I
- MATH 452  Numerical Analysis II
- MATH 453  Numerical Optimization
- MATH 459  Senior Project Seminar
  or MATH 460  Senior Project Applied Seminar
- MATH 461  Senior Project I
  & MATH 462  Senior Project II
- MATH 470  Selected Advanced Topics
- MATH 475  Advanced Topics in Mathematics
  or MATH 476  Advanced Topics in Applied Mathematics
- MATH 482  Abstract Algebra II
- MATH 483  Abstract Algebra III
- MATH 531  Discrete Mathematics with Applications II
- MATH 541  Topology II
- PHYS 132  General Physics II
  or PHYS 133  General Physics III
- PHYS 211  Modern Physics I
- PHYS 301  Thermal Physics I
- PHYS 305  Classical Mechanics I
- PHYS 322  Vibrations and Waves
- PHYS 323  Optics
- PHYS 405  Quantum Mechanics I
- PHYS 408  Electromagnetic Fields and Waves I
- STAT 301  Statistics I
- STAT 302  Statistics II
- STAT 305  Introduction to Probability and Simulation
- STAT 425  Probability Theory
- STAT 426  Estimation and Sampling Theory
- STAT 427  Mathematical Statistics

Total units 44
1. A single course cannot be used to satisfy multiple tracks.
2. Consultation with advisor is recommended prior to selecting Approved Electives; bear in mind your selections may impact pursuit of post-baccalaureate studies and/or goals.
3. Maximum of 8 units combined between MATH 475 and MATH 476.