

Curriculum for the Minor Degree in Mathematics

Units

I. Required Courses. 8

- [Math 206 Linear Algebra I](#) (4) or [Math 244 Linear Analysis I](#) (4)
- [Math 248 Methods of Proof in Mathematics](#) (4)

II. Complete at Least Two of the Following Tracks. 16

- A track consists of two courses from one of the groups A-L.
- Completion of four courses from either group K or L is considered two tracks.
- Some tracks have additional mathematics prerequisites.

- A. [MATH 304 Vector Analysis](#) (4)
[MATH 404 Intro to Differential Geometry](#) (4)
- B. [MATH 306 Linear Algebra II](#) (4)
[MATH 406 Linear Algebra III](#) (4)
- C. [MATH 335 Graph Theory](#) (4)
[MATH 336 Combinatorial Mathematics](#) (4)
[MATH 437 Game Theory](#) (4)
- D. [MATH 408 Complex Analysis I](#) (4)
[MATH 409 Complex Analysis II](#) (4)
- E. [MATH 412 Introduction to Analysis I](#) (4)
[MATH 413 Introduction to Analysis II](#) (4)
- F. [MATH 435 Discrete Math with Apps I](#) (4)
[MATH 436 Discrete Math with Apps II](#) (4)
- G. [MATH 437 Game Theory](#) (4)
[MATH 453 Numerical Optimization](#) (4)
- H. [MATH 440 Topology I](#) (4)
[MATH 441 Topology II](#) (4)
- I. [MATH 442 Euclidean Geometry](#) (4)
[MATH 443 Modern Geometries](#) (4)
- J. [MATH 451 Numerical Analysis I](#) (4)
[MATH 452 Numerical Analysis II](#) (4)
- K. [MATH 341 Theory of Numbers](#) (4)
[MATH 419 Intro to History of Mathematics](#) (4)
[MATH 481 Abstract Algebra I](#) (4)
[MATH 482 Abstract Algebra II](#) (4)
- L. [MATH 304 Vector Analysis](#) (4)
[MATH 344 Linear Analysis II](#) (4)
[MATH 350 Mathematical Software](#) (4)
[MATH 416 Differential Equations II](#) (4)
[MATH 418 Partial Differential Equations](#) (4)

III. Mathematics Electives ([MATH 142](#) and [MATH 143](#) both qualify). $\frac{6}{30}$