

**College of Science and Mathematics**

**Department: Mathematics and Statistics**  
**Undergraduate Program: Minor in Mathematics**

Current	Hours
<b>I. Required Courses</b> MTH 229 Calculus I MTH 230 Calculus II MTH 231 Calculus III MTH 253 Matrix Algebra; or MTH 255 Linear Algebra	18 Hrs
<b>II. Departmental Electives</b> <i>Choose at least 12 hours from the following courses:</i> MTH 232 Calculus IV MTH 233 Differential Equations MTH 257 Discrete Math for Computing MTH 280 Intro to Mathematical Proof MTH 306 Mathematical Modeling MTH 316 Numerical Methods I MTH 317 Numerical Methods II MTH 332 Complex Variables MTH 333 Partial Diff Equations MTH 355 Advanced Linear Algebra MTH 381 Number Theory MTH 407 Optimization Techniques MTH 410 Theoretical Found of Comp MTH 419 Cryptography & Data Sec MTH 431 Real Variables I MTH 432 Real Variables II MTH 433 Real Variables III MTH 451 Intro to Modern Algebra I MTH 452 Intro to Modern Algebra II MTH 456 Coding Theory MTH 457 Combinatorics MTH 458 Applied Graph Theory MTH 471 Geometry MTH 480 Appl Math: Geom Mthds MTH 481 Appl Math: Diff Equations MTH 482 Appl Math: Integral Mthds STT 360 Applied Statistics I; or STT 363 Engineering Statistics STT 461 Theory of Statistics I	12 Hrs

New	Hours
<b>I. Required Courses</b> MTH 229 Calculus I MTH 230 Calculus II MTH 231 Calculus III MTH 253 Matrix Algebra; or MTH 255 Linear Algebra	18 Hrs.
<b>II. Departmental Electives</b> <i>Choose at least 12 hours from the following courses:</i> MTH 232 Calculus IV MTH 233 Differential Equations MTH 257 Discrete Math for Computing MTH 280 Intro to Mathematical Proof MTH 306 Mathematical Modeling MTH 314 Introduction to Mathematical Software MTH 316 Numerical Methods I MTH 317 Numerical Methods II MTH 332 Complex Variables MTH 333 Partial Diff Equations MTH 355 Advanced Linear Algebra MTH 381 Number Theory MTH 407 Optimization Techniques MTH 410 Theoretical Found of Comp MTH 415 Introduction to Scientific Computation MTH 419 Cryptography & Data Sec MTH 431 Real Variables I MTH 432 Real Variables II MTH 433 Real Variables III MTH 451 Intro to Modern Algebra I MTH 452 Intro to Modern Algebra II MTH 456 Coding Theory MTH 457 Combinatorics MTH 458 Applied Graph Theory MTH 471 Geometry MTH 480 Appl Math: Geom Mthds MTH 481 Appl Math: Diff Equations MTH 482 Appl Math: Integral Mthds STT 360 Applied Statistics I; or STT 363 Engineering Statistics STT 461 Theory of Statistics I	12 Hrs

- Only one of MTH 253 and MTH 255 and only one of STT 360 and 363 can count towards the minor.
- Courses cross referenced with the student's major department cannot be included in the minor.
- A GPA of at least a 2.0 must be maintained in all minor courses.
- The minor must include at least three (3) 300 or 400 level courses