

**College of Science and Mathematics**

**Department: Mathematics and Statistics  
Undergraduate Program: B.A. Mathematics**

Current	Hours
<b>I. Required Courses</b>	55 Hrs
MTH 229 Calculus I MTH 230 Calculus II MTH 231 Calculus III MTH 232 Calculus IV MTH 255 Linear Algebra MTH 280 Intro to Math. Proof (WI) MTH 355 Advanced Linear Algebra MTH 431 Real Variables I MTH 440 History of Mathematics MTH 451 Intro to Modern Algebra I MTH 471 Geometry MTH 492 Math Seminar (WI) STT 360 Applied Statistics I STT 361 Applied Statistics II <i>Choose one: (Both 3 hours)</i> MTH 432 Real Variables II MTH 452 Intro to Modern Algebra II	
<b>II. Departmental Electives</b> <i>Choose 9 hours from the following courses:</i>	9 Hrs
MTH 233 Differential Equations MTH 306 Mathematical Modeling MTH 332 Complex Variables MTH 333 Partial Diff Equations MTH 381 Number Theory MTH 407 Optimization Techniques MTH 410 Theoretical Found of Comp MTH 419 Cryptography & Data Sec MTH 432 Real Variables II MTH 433 Real Variables III MTH 452 Intro to Modern Algebra II MTH 456 Coding Theory MTH 457 Combinatorics MTH 458 Applied Graph Theory MTH 480 Appl Math: Geom Mthds MTH 481 Appl Math: Diff Equations MTH 482 Appl Math: Integral Mthds STT 401 Nonparametric Statistics STT 461 Theory of Statistics I STT 462 Theory of Statistics II STT 466 Statistical Methods I STT 467 Statistical Methods II	
<b>III. Related Course Requirements</b>	38 Hrs.
CS 141 Programming I CS 142 Programming II; or CS 240 Computer Science I <i>27 Additional hours in departments belonging to neither COSM nor CECS (at least 8 hrs in one dept). And, one additional course within COSM or CECS, but not the Department of Mathematics and Statistics.</i>	

New	Hours
<b>I. Required Courses</b>	55 Hrs.
MTH 229 Calculus I MTH 230 Calculus II MTH 231 Calculus III MTH 232 Calculus IV MTH 255 Linear Algebra MTH 280 Intro to Math. Proof (WI) MTH 355 Advanced Linear Algebra MTH 431 Real Variables I MTH 440 History of Mathematics MTH 451 Intro to Modern Algebra I MTH 471 Geometry MTH 492 Math Seminar (WI) STT 360 Applied Statistics I STT 361 Applied Statistics II <i>Choose one: (Both 3 hours)</i> MTH 432 Real Variables II MTH 452 Intro to Modern Algebra II	
<b>II. Departmental Electives</b> <i>Choose 9 hours from the following courses:</i>	9 Hrs
MTH 233 Differential Equations MTH 306 Mathematical Modeling MTH 314 Introduction to Mathematical Software MTH 332 Complex Variables MTH 333 Partial Diff Equations 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 432 Real Variables II MTH 433 Real Variables III MTH 452 Intro to Modern Algebra II MTH 456 Coding Theory MTH 457 Combinatorics MTH 458 Applied Graph Theory MTH 480 Appl Math: Geom Mthds MTH 481 Appl Math: Diff Equations MTH 482 Appl Math: Integral Mthds STT 401 Nonparametric Statistics STT 461 Theory of Statistics I STT 462 Theory of Statistics II STT 466 Statistical Methods I STT 467 Statistical Methods II	
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