

College of Science and Mathematics

Department: Mathematics and Statistics

Undergraduate Program: B.S. Mathematics – Statistics Concentration

Current	Hours
I. Required Courses 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 360 Applied Statistics I MTH 361 Applied Statistics II MTH 461 Theory of Statistics I MTH 462 Theory of Statistics II MTH 466 Statistical Methods I MTH 467 Statistical Methods II MTH 492 Statistics Seminar (WI)	56 Hrs
II. Departmental Electives (Choose 15 Hours) STT 401 Nonparametric Methods STT 411 Applied Time Series STT 424 Statistical Control Methods STT 426 Reliability and Life Data STT 428 Queuing Theory STT 469 Experimental Design MTH 233 Differential Equations MTH 306 Mathematical Modeling MTH 316 Numerical Methods I MTH 317 Numerical Methods II MTH 332 Complex Variables MTH 333 Partial Differential Equations MTH 381 Number Theory MTH 407 Optimization Techniques MTH 410 Theoretical Fnds of Computing MTH 419 Cryptography & Data Security 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 476 Computer Graphics I MTH 477 Computer Graphics II MTH 480 Appl Math:Geometric Mthds MTH 481 Appl Math:Differential Eqs MTH 482 Appl Math:Integral Methods CS 470 Systems Simulation	15 Hrs
III. Related Course Requirements CS 141 Programming I CS 142 Programming II; or CS 240 Computer Science I <i>Cognate Area – select at least 16 hours in any area in which statistics may be applied, with advisor's approval</i>	24 Hrs.

New	Hours
I. Required Courses 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 360 Applied Statistics I MTH 361 Applied Statistics II MTH 461 Theory of Statistics I MTH 462 Theory of Statistics II MTH 466 Statistical Methods I MTH 467 Statistical Methods II MTH 492 Statistics Seminar (WI)	56 Hrs.
II. Departmental Electives (Choose 15 Hours) STT 401 Nonparametric Methods STT 411 Applied Time Series STT 424 Statistical Control Methods STT 426 Reliability and Life Data STT 428 Queuing Theory STT 469 Experimental Design MTH 233 Differential Equations 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 Differential Equations MTH 381 Number Theory MTH 407 Optimization Techniques MTH 410 Theoretical Fnds of Computing MTH 415 Introduction to Scientific Computation MTH 419 Cryptography & Data Security 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 476 Computer Graphics I MTH 477 Computer Graphics II MTH 480 Appl Math:Geometric Mthds MTH 481 Appl Math:Differential Eqs MTH 482 Appl Math:Integral Methods CS 470 Systems Simulation	15 Hrs
III. Related Course Requirements CS 141 Programming I CS 142 Programming II; or CS 240 Computer Science <i>Cognate Area – select at least 16 hours in any area in which statistics may be applied, with advisor's approval</i>	24 Hrs