Fall 2014

Department of Mathematics and Statistics

List of Mathematics & Statistics Options

For Students in Applied Mathematics Specialization

MAT 301 Number Theory

MAT 305 Abstract Algebra

MAT 315 Topics in Linear Algebra\*

MAT 316 Probability\*

MAT 317 Linear Programming\*

MAT 318 Mathematical Statistics

MAT 320 Complex Analysis

MAT 330 Mathematical Biology\*

MAT 331 Numerical Methods\*

MAT 351 Geometry

MAT 370 Topics in Mathematics\*+

MAT 391 Independent Study in Mathematics#

MAT 392 Guided Study in Mathematics#

MAT 393 Independent Research in Mathematics#

MAT 403 Advanced Calculus

MAT 405 Topology

MAT 407 Projective Geometry

MAT 440 Mathematical Logic

MAT 451 Seminar in Algebra

MAT 452 Seminar in Geometry and Topology

MAT 453 Seminar in Analysis\*+

MAT 454 Seminar in Applied Mathematics\*

MAT 470 Topics in Mathematics\*+

MAT 492 Guided Study in Mathematics II#

MAT 493 Independent Research in Mathematics II#

MAT 494 Independent Study in Mathematics II#

STA 303 Design of Experiments

STA 304 Sampling and Nonparametric Statistics

STA 305 Regression Analysis

STA 306 Applied Multivariate Analysis

STA 307 Data Mining and Predictive Modeling

STA 314 Statistical Quality Control

STA 318 Operations Research\*

STA 370 Topics in Statistics

STA 391 Independent Study in Statistics#

STA 392 Guided Study in Statistics#

STA 393 Independent Research in Statistics#

**\*** Denotes an Applied Mathematics option.

**+** Denotes a topics course that may be an Applied Mathematics option depending on the topic. The department notifies the students each year which topics courses will qualify.

**#** Students cannot use independent study, guided study, or independent research courses to fulfill the 3 required Applied Mathematics options. Students can take at most one course unit of independent study, guided study, or independent research to fulfill the Applied Mathematics/Mathematics/Statistics options. This requires approval by the Applied Mathematics Committee. When taking an independent study, guided study, or independent research course, a student’s course load should not be more than 4.5 course units. Independent study, guided study, or independent research courses may not be taken in order to improve a grade, or to replace a course that a student failed to sign up for.

Revised: March 19, 2014