

Course Name	Course #	Pre-requisite(s)
Every Semester Calculus I Calculus II Calculus III	MATH 0220 MATH 0230 MATH 0240	MATH 0200 <b>or</b> placement exam MATH 0220 MATH 0230
Every Year (core courses) Introduction of Theoretical Mathematics (Fall) Introduction to Theory 1-Variable Calculus (Spring) Linear Algebra (Spring) Differential Equations (Fall) Numerical Analysis (Spring) Senior Research (Fall) Senior Research (Spring) Mathematical Computing* (Fall)	MATH 0413 MATH 0420 MATH 1180 MATH 1270 MATH 1070 MATH 1952 MATH 1951 MATH 1001	MATH 0230 MATH 0230 <b>and</b> MATH 0413 MATH 0413 MATH 0240 <b>and</b> MATH 1180 MATH 0240 Math 0220
Every Year (elective courses) <u>Two of the following:</u> Numerical Math: Linear Algebra Industrial Math Linear Programming Modeling in Applied Math 1 Introduction Abstract Algebraic Systems <u>Two of the following:</u> Advanced Calculus 1 Advanced Calculus 2 Vector Analysis and Applications Complex Variables & Applications Applied Elementary Number Theory	MATH 1080 MATH 1100 MATH 1110 MATH 1360 MATH 0430  MATH 1530 MATH 1540 MATH 1550 MATH 1560 MATH 1020	   MATH 1070 MATH 1180 MATH 0250 <b>or</b> MATH 1270 MATH 0413  MATH 0420 MATH 1530 MATH 0240 <b>and</b> MATH 0420 MATH 0240 <b>and</b> MATH 0420 MATH 0430
<b>Secondary Education Courses</b> Every two years Abstract Algebra** Finite Mathematics Big Ideas of Mathematics (W) Geometry	MATH 0430 MATH 0400 MATH 1230 MATH 1290	MATH 0413 MATH 0200 ENGCMP 0020, MATH 0230, <b>and</b> MATH 0413 MATH 0413

\*Recommended Programming Course

\*\*Count as elective courses for Applied Mathematics Majors

(W) A writing intensive course that can be used as a Composition 3 course for Applied Mathematics Majors

The **statistics course rotation** is as follows:

Course Name	Course #	Pre-requisite(s)
Every semester (Introductory statistics courses) Basic Applied Statistics Applied Statistical Methods Probability and Statistics for Management	STAT 0200 STAT 1000 STAT 1100	
Every year Introduction to Probability (Fall) Introduction to Mathematical Statistics (Spring) Applied Regression (Fall)	STAT 1151 STAT 1152 STAT 1221	MATH 0230 STAT 1151 STAT 0200 <b>or</b> STAT 1000 <b>or</b> STAT 1100 <b>or</b> NUR 0088
Three semester sequence for upper-level courses: Statistical Quality Control	STAT 1251	STAT 0200 <b>or</b> STAT 1000 <b>or</b> STAT 1100 <b>or</b> NUS 0088
Individualized courses in statistics: Statistics Internship	STAT 1900	
Statistics Teaching Assistant	STAT 1955	