

# SIMPSON COLLEGE

# MATHEMATICS

## MATHEMATICS MAJOR

### Course Requirements

Math 151 Calculus I  
Math 152 Calculus II  
Math 251 Calculus III  
Math 255 Linear Algebra  
Math 265 Introduction to Advanced Mathematics  
CmSc 150 Introduction to Programming

### 300-Level Theory Course: *Take one of*

Math 315 Graph Theory  
Math 325 Topology  
Math 331 Real Analysis  
Math 350 Abstract Algebra  
Math 375 Geometry

### 300-Level Application Course: *Take one of*

Math 301 Probability and Statistics I  
Math 302 Probability and Statistics II  
Math 308 Advanced Data Modeling  
Math 345 Differential Equations  
Math 360 Complex Variables

### Electives: *Take two additional courses from the following list*

Math 301 Probability and Statistics I  
Math 302 Probability and Statistics II  
Math 308 Advanced Data Modeling  
Math 315 Graph Theory  
Math 325 Topology  
Math 331 Real Analysis  
Math 345 Differential Equations  
Math 350 Abstract Algebra  
Math 360 Complex Variables  
Math 375 Geometry  
Math 390 Special Topics in Mathematics  
CmSc 365 Theory of Computation

### Capstone: *One of the following courses*

Math 385 Senior Research Seminar  
Math 386 Senior Experience Seminar

## MATHEMATICS MINOR

### Course Requirements

Math 151 Calculus I (QUANT)  
Math 152 Calculus II (QUANT)

### Electives: *Three additional 4 credit mathematics courses from the following list*

Math 251 Calculus III (QUANT)  
Math 255 Linear Algebra (ORALCOM)  
Math 265 Introduction to Advanced Mathematics (CRITTHNK, WRITCOM)  
Math 290 Special Topics in Mathematics  
Math 301 Probability and Statistics I  
Math 302 Probability and Statistics II  
Math 308 Advanced Data Modeling  
Math 315 Graph Theory  
Math 325 Topology  
Math 331 Real Analysis  
Math 345 Differential Equations  
Math 350 Abstract Algebra  
Math 360 Complex Variables  
Math 375 Geometry  
Math 390 Special Topics in Mathematics  
CmSc 365 Theory of Computation