

## Mathematics Major

### Two-Year Schedule for Students Entering as transfer students

*Note: Courses marked (m) are required. In addition a major must complete at least one course marked c-1 and at least one course marked c-2.*

### Two Year Upper Division Plan

*Beginning in an odd-numbered fall*

<p style="text-align: center;"><b>Fall, Year 1</b></p> <p>(m) Math 240 (m) Math 313 (postpone one semester if need Math 241)</p>	<p style="text-align: center;"><b>Spring, Year 1</b></p> <p>(m) Math 343 (c-1) Math 413</p>
<p style="text-align: center;"><b>Fall, Year 2</b></p> <p>(m) Math 415 plus one of (c-1) Math 443 or Math 344 or (c- 2) Stat 323 or Math 351</p>	<p style="text-align: center;"><b>Spring, Year 2</b></p> <p>Elective or Math 344 (c- 2) Math 361</p>

*Beginning in an even -numbered fall*

<p style="text-align: center;"><b>Fall, Year 1</b></p> <p>(m) Math 313 (postpone one semester if need Math 241) (m) Math 240</p>	<p style="text-align: center;"><b>Spring, Year 1</b></p> <p>(m) Math 343 (c- 2) Math 361</p>
<p style="text-align: center;"><b>Fall, Year 2</b></p> <p>(c- 2) Math 351 or Stat 323 (m) Math 415</p>	<p style="text-align: center;"><b>Spring, Year 2</b></p> <p>(c-1) Math 416 or Math 413 elective</p>

#### **Mandatory (m) Upper Division Courses**

Math 313 (4) Ordinary Differential Equations

Math 343 (4) Introduction to Algebraic Structures

Math 415 (4) Introduction to Real Analysis

#### **Choice 1 (c- 1) Upper Division Courses - Choose one of the following**

Math 344 (3) Linear Algebra

Math 413 (3) Advanced Ordinary Differential equations

Math 416 (3) Introduction to Real Analysis (Continued)  
 Math 443 (3) Advanced Algebraic Structures

**Choice 2 (c- 2) Upper Division Courses - Choose one of the following**

Math 351 (4) Introduction to Numerical Analysis  
 Math 361 (4) Mathematical Modeling  
 Stat 323 (4) Introduction to Probability and Statistics

**Upper Division Electives Courses that count towards the 26 units of required upper division math.**

Math 314 (3) Partial Differential Equations  
 Math 340 (3) Number Theory  
 Math 371 (3) Geometry  
 Math 401 (3) History Of Mathematics  
 Math 407 (3) School Mathematics from an Advanced Viewpoint  
 Math 418 (3) Complex Analysis  
 Math 446 (3) Mathematical Logic and Set Theory  
 Math 451 (4) Advanced Numerical analysis  
 Math 474 (3) Graph Theory  
 Math 485 (1-2) Seminar in Mathematics  
 Stat 324 (4) Probability and Mathematical Statistics II

The semesters you can take elective mathematics courses:

<b>Even Fall</b>	<b>Odd Spring</b>
Math 340 Math 474	Math 314 Math 371 Math 407 Math 418 Stat 324
<b>Odd Fall</b>	<b>Even Spring</b>
Math 340 Math 401	Math 314 Math 371 Math 407 Math 446 Math 451