

Mathematics Requirements under the 4/4 Curriculum

Mathematics Major

Mathematics course	Semester offered	Prerequisite
MA 160 Calculus II	Fall and Spring	MA 150 Calculus I or equivalent
MA 211 Calculus III	Fall and Spring	MA 160 Calculus II
MA 213 Linear Algebra	Fall	MA 160 Calculus II
MA 240 Introduction to Proof	Spring	MA 211 Calculus III
MA 251 Probability and Statistics	Spring	MA 160 Calculus II
MA 401 Real Analysis I or MA 406 Abstract Algebra I	Fall	MA 240 Introduction to Proof
One 400-level Elective course*	Fall and Spring	Depends upon course
Two Electives at 200-level or above**	Fall and Spring	Depends upon course
One Topics course at 300-level or above (half or full course)	Fall	Depends upon topic
Mathematics Seminar (half course)	Spring	Senior MA major or Permission of Instructor
CS 111 Introduction to Computer Science I	Fall	None

* 400-level Math electives include: MA 403 Real Analysis II
 MA 407 Abstract Algebra II
 MA 417 Applied Mathematics
 MA 451 Applied Statistical Methods

** Other Math electives include: MA 208 Theory of Computation
 MA 217 Applied Graph Theory
 MA 303 Differential Equations
 MA 304 History of Mathematics
 MA 305 Scientific Computing
 MA 308 Geometries
 MA 315 Complex Analysis
 MA 351 Applied Regression Analysis
 MA 380 Topics in Mathematics (half or full course)
 MA 381 Math Education Seminar (half course)

Some Mathematics Major Sequencing Examples***

These first examples are for someone *considering graduate school*. There are many other ways to select and sequence courses, depending upon your interests and plans.

Example 1

	<i>Fall</i>	<i>Spring</i>
<i>FY</i>	MA 150 CS 111	MA 160 MA 217
<i>SO</i>	MA 211 MA 213 PY 210	MA 240 MA 251
<i>JR</i>	MA 315 MA 401/406	MA 303 MA 403/407
<i>SR</i>	MA 380 (½) MA 406/401	MA 407/403 MA 410 (½)

Example 2

	<i>Fall</i>	<i>Spring</i>
<i>FY</i>	MA 160 CS 111	MA 211 MA 251 CS 113
<i>SO</i>	MA 213 MA 351 PY 210	MA 240 MA 303
<i>JR</i>	MA 315 MA 401/406	MA 403/407 MA 417/451
<i>SR</i>	MA 380 (½) MA 406/401	MA 407/403 MA 410 (½)

These other examples are for someone *considering high school teaching*. Student teaching can be planned in the fall or spring semester. There are many other ways to select and sequence courses, depending upon your interests and plans.

Example 3

	<i>Fall</i>	<i>Spring</i>
<i>FY</i>	MA 160 CS 111	MA 211
<i>SO</i>	MA 213 MA 304/308 PY 210	MA 240 MA 251
<i>JR</i>	MA 304/308 MA 401/406	MA 400-level MA 381 (½)
<i>SR</i>	Student Teaching	MA 410 (½)

Example 4

	<i>Fall</i>	<i>Spring</i>
<i>FY</i>	MA 150 CS 111	MA 160
<i>SO</i>	MA 211 MA 213 PY 210	MA 240 MA 251
<i>JR</i>	MA 401/406 MA 304/308/451	MA 381 (½) MA 410 (½)
<i>SR</i>	MA 401/406 MA 304/308/451	Student Teaching

*** Please consult with the Department Chair or any other Department member to discuss other ways to tailor the mathematics major to fit your academic interests and other plans.

Mathematics Minor

Five math courses numbered at MA 150 and above,

to include both MA 211(Calculus III)

and MA 213 (Linear Algebra)

Requirements take effect beginning with the class of 2015.