



## BA, Mathematics/Statistics Option

**Major requirements (87 credits):**

**Required Courses:**

Course Number	Course Name	Credits	Prerequisites	Quarters Offered
Math 161	Calculus I	5	Math 106 and Engl 100	Fall, winter, spring
Math 162	Calculus II	5	Math 161	Fall, winter, spring
Math 163	Calculus III	5	Math 162	Fall, winter, spring
Math 241	Calculus IV	5	Math 163	Fall, spring
Math 225	Foundations of Mathematics	5	Math 161	Fall, winter, spring
Math 231	Linear Algebra	5	Math 106	Fall, winter, spring
Math 345	Numerical Analysis I	4	Math 225 and 231, High-Level Computer Language	Winter (even) Spring (odd)
Math 360	Continuous Functions	4	Math 225 and 231	Fall
Math 385	Probability and an Introduction to Statistics	4	Math 163 and 225,	Fall Winter (odd) Spring (even)
Math 386	Applied Statistics	4	Math 380 or 385	Winter
Math 485	Theoretical Probability and Mathematical Statistics	4	Math 241 and 385	Spring (odd)
Math 486	Advanced Topics in Statistics	3	Math 485	Fall (even)
Math 461	Advanced Calculus I	4	Math 241 and 360	Winter
Math 462	Advanced Calculus II	4	Math 461	Spring
Math 494	Senior Seminar	2	Prior or concurrent enrollment in Math 360 or 432	Winter

**Mathematics Electives**

*Select four courses from the following*

Course Number	Course Name	Credits	Prerequisites	Quarters Offered
Math 431	Introduction to Modern Algebra I	4	Math 225 and 231	Fall
Math 432	Introduction to Modern Algebra II	4	Math 431	Winter
Math 433	Introduction to Modern Algebra III	4	Math 432	Spring (odd)
Math 445	Numerical Analysis II	4	Math 345	Spring (even)
Math 447	Differential Equations	4	Math 225,231 and 347	Winter (odd)
Math 470	Foundations of Geometry	4	Math 225 and 231 or concurrent enrollment	Spring (odd)
Math 481	Complex Analysis	4	Math 360	Fall (even)

**Supporting Courses (8 credits)**

Courses satisfying this requirement must come from outside the Department selected in consultation with the department adviser.

## SCHEDULE FOR NEW FRESHMEN

**ASSUMPTIONS:** This assumes that the student is initially placed in college-level English Composition, and Mathematics (advanced placement), and has completed the Foreign Language requirement. Otherwise, the student also may need to take any or all of the following: ENGL 100, Math 103, Math 104, Math 105, Math 106 and courses in a foreign language.

### NEW FRESHMAN FOUR-YEAR SCHEDULE<sup>1</sup>

	<b>Fall</b>	<b>Winter</b>	<b>Spring</b>
<b>Freshman</b>	MATH 161 - 5 cr. CPLA 100/101 – 2 cr. ENGL 101 - 5 cr. GEGR – 5 cr.	MATH 162 - 5 cr. MATH 231 – 5 cr. ENGL 201 – 5 cr.	MATH 163 - 5 cr. MATH 225 - 5 cr GEGR - 5 cr.
<b>Sophomore</b>	MATH 241 – 4 cr. PHYS 151 <sup>2</sup> – 4 cr. GEGR – 5 cr. Free Elective – 1-4 cr.	PHYS 152 <sup>2</sup> – 4 cr. GEGR - 5 cr. Free Elective – 1-4 cr.	GEGRs (two)– 10 cr. MATH Elective – 4 cr Free Elective – 1-4 cr.
<b>Junior</b>	MATH 360 – 4 cr. MATH 385 – 4 cr. GEGR – 5 cr. Free Elective – 2-5 cr.	MATH 386 – 4 cr MATH 461 – 4 cr. Cultural Div. – 4 cr. GEGR – 5 cr.	MATH 462 – 4 cr. MATH 485 – 4cr Intern. Studies – 4-5 cr. Free Elective(s) – 5-10 cr.
<b>Senior</b>	MATH Elective - 4 cr. MATH 486 – 3 cr. ITGS 400 – 4 cr. Free Elective – 4-5 cr.	MATH Elective - 4 cr. MATH 494 - 2 cr. MATH 345 - 4 cr. Free Elective – 1-5 cr.	MATH Elective - 4 cr Free Elective(s) – 5-10 cr.

<sup>1</sup> For students entering an odd year (e.g. Fall 2009). For others, please consult an adviser.

<sup>2</sup> Suggested Elective (from outside the department), consult adviser for other choices.

If the major shown above is your chosen program, you should meet with the Department Chair to plan your first quarter of classes and to be assigned to a departmental adviser. Please contact:

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