

# Advising Course Plan - Applied Mathematics Major - Actuarial and Financial Mathematics Concentration

The following assumes that the student arrives having taken AP Calculus AB.

MATH 371 and MATH 372 are recommended in the junior year. These can be taken in the senior year; if so, two electives will be moved from the senior year to the junior year.

First Year		
Fall		Units
MATH 142Q <sup>1</sup>	Calculus II with Analytic Geometry	1
FSEM 100	First Year Seminar	1
	General Education requirement	1
	Elective	1
<b>Term Units</b>		<b>4</b>
Spring		
MATH 211Q <sup>1</sup>	Linear Algebra	1
CSCI 141 or 261 <sup>1 2</sup>	Introduction to Computer Science I Introduction to Scientific Computing	1
	General Education requirement	1
	Elective	1
<b>Term Units</b>		<b>4</b>
Second Year		
Fall		
MATH 243Q <sup>1</sup>	Calculus III with Analytic Geometry	1
MATH 221Q <sup>3</sup>	Introduction to Logic and Proof	1
	General Education requirement	1
ECON 103S	Essentials of Economics I	1
<b>Term Units</b>		<b>4</b>
Spring		
MATH 321 <sup>4</sup>	Ordinary Differential Equations	1
ACCT 211	Introduction to Financial Accounting	1
	General Education requirement	1
	Elective	1
<b>Term Units</b>		<b>4</b>
Third Year		
Fall		
MATH 371 <sup>5</sup>	Probability: An Introduction to the Study of Randomness	1
	General Education requirement	1
	Junior Seminar	1
FINA 311	Financial Management	1
<b>Term Units</b>		<b>4</b>
Spring		
MATH 372 <sup>5</sup>	Mathematical Statistics	1
	General Education Writing Requirement	1
	General Education requirement	1
FINA 320	Investments	1
<b>Term Units</b>		<b>4</b>
Fourth Year		
Fall		
FINA 415	Financial Risk Management	1

MATH 498	Senior Project I	1
	Elective	1
	Elective	1
<b>Term Units</b>		<b>4</b>
Spring		
MATH 499	Senior Project II	1
	Elective	1
	Elective	1
	Elective	1
<b>Term Units</b>		<b>4</b>
<b>Total Unit: 32</b>		

- <sup>1</sup> Course is offered every fall and spring semester
- <sup>2</sup> CSCI 261 is offered annually, either fall or spring semester
- <sup>3</sup> MATH 221Q is offered every fall semester
- <sup>4</sup> MATH 321 is offered annually, either fall or spring semester
- <sup>5</sup> MATH 371 and MATH 372 are electives offered every two years.  
Please check with the Mathematics Department for details on course sequencing.