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The department of mathematical sciences offers the following degrees:	1. BA in Mathematics – including a pre-actuarial/financial mathematics track.	3. MA in Mathematics
	2. BA/MA in Mathematics – students can receive up to 12 credit hours of graduate courses towards the BA degree, and the remaining credit hours up to 30 credit hours of graduate courses towards the MA.	
		4. PhD in Mathematics

Mathematics Major **Total Credits: 42**

Faculty	Dr. Edward Belbruno	edward.belbruno@yu.edu
	Dr. Wenxiong Chen	wchen@yu.edu
	Dr. Michael Dalezman	dalezma@yu.edu
	Dr. Marian Gidea	marian.gidea@yu.edu
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	Dr. Peter Nandori	peter.nandori@yu.edu
	Dr. Pablo Roldan	pablo.rolدان@yu.edu

Required Courses: 7 (seven) MATH courses as listed below: 24 Credits

MATH 1412	Calculus I	4 Credits
MATH 1413	Calculus II	4 Credits
MATH 1510	Multivariable Calculus	4 Credits
MATH 2105	Linear Algebra	3 Credits
MATH 1520	Advanced Calculus I or MATH 1523 / MATH 5118* Introduction to Analysis	3 Credits
MATH 1521	Advanced Calculus II or MATH 1540 / MATH 5127* Complex Variables	3 Credits
MATH 2601	Ordinary Differential Equations or MATH 2611 Partial Differential Equations or MATH5930 Topics: Partial Differential Equations	3 Credits

Electives: 3 (three) MATH courses 1500 or higher 9 Credits

Note: Graduate courses in mathematics are open to undergraduate students who successfully completed Multivariable Calculus and Linear Algebra.

Correlates: 3 (three) correlate courses from graduate mathematics, computer science, physics and economics. Correlates may count towards the general education requirements. 9-10 Credits

Recommended courses:

COMP 1300C	Introduction to Computer Science and Programming	PHYS 1052C	General Physics II
ECO 1101	Intermediate Microeconomics	PHYS 1140	Mathematical Physics
ECO 1201	Intermediate Macroeconomics	PHYS 1221	Classical Mechanics I
PHYS 1051C	General Physics I	PHYS 1340	Computational Methods in Scientific Research

Pre-actuarial/Financial Mathematics Track

Total Credits: 42

Required Courses:		27 Credits	
MATH 1412	Calculus I	4 Credits	
MATH 1413	Calculus II	4 Credits	
MATH 1510	Multivariable Calculus	4 Credits	
MATH 2105	Linear Algebra	3 Credits	
MATH 1520	Advanced Calculus I or MATH 1523 / MATH 5118* Introduction to Analysis	3 Credits	
MATH 2461 or MATH 2462 or MATH 5266	Probability Theory Mathematical Statistics Mathematical Statistics (Graduate)	3 Credits	
MATH 2601 or MATH 2611 or MATH5930	Ordinary Differential Equations Partial Differential Equations Topics: Partial Differential Equations	3 Credits	
MATH 2901 or MATH 5901	Mathematics of Finance Mathematics of Finance (Graduate)	3 Credits	
Electives: 2 (two) MATH courses 1500 or higher			
Note: Graduate courses in mathematics are open to undergraduate students who successfully completed Multivariable Calculus and Linear Algebra.		6 Credits	
Correlates: 3 (three) correlate courses from graduate mathematics, computer science, physics and economics. Correlates may count towards the general education requirements.		9-10 Credits	
Recommended courses:			
ECO 1101	Intermediate Microeconomics	ECO 1177	Game Theory
ECO 1201	Intermediate Macroeconomics	COMP 1300C	Introduction to Computer Science and Programming
ECO 1421	Econometrics	PHYS 1340	Computational Methods in Scientific Research
ECO 2601	Financial Economics		

Mathematics Minor

Total Credits: 21

MATH 1412	Calculus I	4 Credits
MATH 1413	Calculus II	4 Credits
MATH 1510	Multivariable Calculus	4 Credits
MATH 2105	Linear Algebra	3 Credits
Electives: 2 (two) MATH courses 1500 or higher		
Note: Graduate courses in mathematics are open to undergraduate students who successfully completed Multivariable Calculus and Linear Algebra.		6 Credits