Northern Kentucky University

MAJOR: Mathematics

TRACK: Applied Mathematics

FIRST YEAR	Fall Semester		Spring Semester	
	MAT 129 Calculus I ¹	4	MAT 229 Calculus II	5
	MAT 129 Mathematical Sciences Seminar	1	STA 250 Probability & Statistics I	3
	Gen Ed: Communication (Written I)	3	Gen Ed: Communication (Oral)	3
	Gen Ed: Culture & Creativity	3	CSC 260 Object-Oriented Programming I	3
	INF 120 Elementary Programming ²	3		
	TOTAL	14	TOTAL	14
SECOND YEAR	O YEAR Fall Semester		Spring Semester	
	CSC 270 Mathematics Software Programming	3	MAT 234 Linear Algebra	3
	MAT 329 Calculus III	4	MAT 325 Differential Equations	3
	Gen Ed: Communication (Written II)	3	Gen Ed: Scientific & Quantitative Inquiry (Natural Sciences with lab)	4
	Gen Ed: Individual & Society	3	Gen Ed: Cultural Pluralism	3
	Elective/minor	3	Elective/minor	3
	TOTAL	16	TOTAL	16
THIRD YEAR	Fall Semester		Spring Semester	
			Spring semester	
	MAT 330 Classical Applied	3	MAT 360 Numerical Analysis ³ or	3
	Analysis		MAT 360 Numerical Analysis ³ or MAT 430 Complex Variables ⁴	
	Analysis MAT/STA major elective	3	MAT 360 Numerical Analysis ³ or MAT 430 Complex Variables ⁴ MAT/STA major elective	3
	Analysis		MAT 360 Numerical Analysis ³ or MAT 430 Complex Variables ⁴ MAT/STA major elective (300-level or higher)	
	Analysis MAT/STA major elective (300-level or higher)	3	MAT 360 Numerical Analysis ³ or MAT 430 Complex Variables ⁴ MAT/STA major elective	3
	Analysis MAT/STA major elective (300-level or higher) Gen Ed: Individual & Society	3	MAT 360 Numerical Analysis ³ or MAT 430 Complex Variables ⁴ MAT/STA major elective (300-level or higher) Gen Ed: Culture & Creativity	3
	Analysis MAT/STA major elective (300-level or higher) Gen Ed: Individual & Society	3	MAT 360 Numerical Analysis ³ or MAT 430 Complex Variables ⁴ MAT/STA major elective (300-level or higher) Gen Ed: Culture & Creativity Elective/minor	3
	Analysis MAT/STA major elective (300-level or higher) Gen Ed: Individual & Society Elective/minor	3 3 3	MAT 360 Numerical Analysis ³ or MAT 430 Complex Variables ⁴ MAT/STA major elective (300-level or higher) Gen Ed: Culture & Creativity Elective/minor (300-level or higher)	3 3
	Analysis MAT/STA major elective (300-level or higher) Gen Ed: Individual & Society Elective/minor	3 3 3	MAT 360 Numerical Analysis ³ or MAT 430 Complex Variables ⁴ MAT/STA major elective (300-level or higher) Gen Ed: Culture & Creativity Elective/minor (300-level or higher) Elective/minor	3 3
FOURTH YEAR	Analysis MAT/STA major elective (300-level or higher) Gen Ed: Individual & Society Elective/minor Elective/minor	3 3 3	MAT 360 Numerical Analysis³ or MAT 430 Complex Variables⁴ MAT/STA major elective (300-level or higher) Gen Ed: Culture & Creativity Elective/minor (300-level or higher) Elective/minor (300-level or higher) TOTAL Spring Semester	3 3 3
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FOURTH YEAR	Analysis MAT/STA major elective (300-level or higher) Gen Ed: Individual & Society Elective/minor Elective/minor TOTAL Fall Semester MAT/STA major elective (300-level or higher)	3 3 3 3 15	MAT 360 Numerical Analysis³ or MAT 430 Complex Variables⁴ MAT/STA major elective (300-level or higher) Gen Ed: Culture & Creativity Elective/minor (300-level or higher) Elective/minor (300-level or higher) TOTAL Spring Semester MAT 360 Numerical Analysis³ or MAT 430 Complex Variables⁴	3 3 3 15
FOURTH YEAR	Analysis MAT/STA major elective (300-level or higher) Gen Ed: Individual & Society Elective/minor Elective/minor TOTAL Fall Semester MAT/STA major elective (300-level or higher) Gen Ed: Global Viewpoints	3 3 3 3 15	MAT 360 Numerical Analysis³ or MAT 430 Complex Variables⁴ MAT/STA major elective (300-level or higher) Gen Ed: Culture & Creativity Elective/minor (300-level or higher) Elective/minor (300-level or higher) TOTAL Spring Semester MAT 360 Numerical Analysis³ or MAT 430 Complex Variables⁴ Elective/minor	3 3 3 15
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	(300-level or higher)		(300-level or higher)		
			MAT 489 Comprehensive	0	
			Examination		
	TOTAL	15	TOTAL	15	
GRAND TOTAL OF CREDITS					

Note: This plan is ONE way in which you can complete your degree program in 4 years; it is not the only way. It assumes that you have a mathematical background sufficient to begin with calculus as evidenced by a math ACT score of at least 27 or a math SAT score of at least 650. It also assumes that you are not a transfer student, and you are beginning in the fall.

¹MAT 129 satisfies the Scientific & Quantitative Literacy Mathematics & Statistics general education requirement.

²INF 120 satisfies the Scientific & Quantitative Literacy Natural Sciences without Lab general education requirement. This course is a pre-requisite for CSC 260.

³MAT 360 is offered spring-only odd years.

⁴MAT 430 is offered spring-only even years. To take the course, MAT 302 must be used as an elective in the degree requirements.