Northern Kentucky University

MAJOR: Mathematics
TRACK: Pure Mathematics

FIRST YEAR	Fall Semester		Spring Semester	
	MAT 129 Calculus I ¹	4	MAT 229 Calculus II	5
	MAT 129 Mathematical Sciences	1	STA 250 Probability & Statistics I	3
	Seminar		·	
	Gen Ed: Communication (Written	3	Gen Ed: Communication (Oral)	3
	1)			
	Gen Ed: Culture & Creativity	3	Elective/minor	3
	Gen Ed: Scientific & Quantitative	3		
	Inquiry (Natural Sciences without			
	lab)			
	TOTAL	14	TOTAL	14
SECOND YEAR	Fall Semester		Spring Semester	ı
	CSC 270 Mathematics Software	3	MAT 234 Linear Algebra	3
	Programming			
	MAT 329 Calculus III	4	MAT 302 Introduction to Higher	3
			Mathematics	
	Gen Ed: Communication (Written	3	Gen Ed: Scientific & Quantitative	4
	ll)		Inquiry (Natural Sciences with	
	Floative/minor	3	lab) Gen Ed: Cultural Pluralism	3
	Elective/minor Elective/minor	3	Elective/minor	3
	TOTAL	16	TOTAL	16
THIRD YEAR	Fall Semester		Spring Semester	
	MAT 410 Abstract Algebra I or	3	MAT 415 Abstract Algebra II or	3
	MAT 420 Real Variables I ²		MAT 430 Complex Variables ³	
	MAT/STA major elective	3	MAT/STA major elective	3
	(300-level or higher)		, ,	
	(300 level of flighter)		(300-level or higher)	
		3	(300-level or higher) Gen Ed: Individual & Society	3
	Gen Ed: Individual & Society Gen Ed: Culture & Creativity	3		3
	Gen Ed: Individual & Society		Gen Ed: Individual & Society	
	Gen Ed: Individual & Society		Gen Ed: Individual & Society Elective/minor	
	Gen Ed: Individual & Society Gen Ed: Culture & Creativity	3	Gen Ed: Individual & Society Elective/minor (300-level or higher)	3
	Gen Ed: Individual & Society Gen Ed: Culture & Creativity	3	Gen Ed: Individual & Society Elective/minor (300-level or higher) Elective/minor	3
FOURTH YEAR	Gen Ed: Individual & Society Gen Ed: Culture & Creativity Elective/minor	3	Gen Ed: Individual & Society Elective/minor (300-level or higher) Elective/minor (300-level or higher) TOTAL Spring Semester	3
FOURTH YEAR	Gen Ed: Individual & Society Gen Ed: Culture & Creativity Elective/minor TOTAL Fall Semester MAT 410 Abstract Algebra I or	3	Gen Ed: Individual & Society Elective/minor (300-level or higher) Elective/minor (300-level or higher) TOTAL Spring Semester MAT 430 Complex Variables ³ or	3
FOURTH YEAR	Gen Ed: Individual & Society Gen Ed: Culture & Creativity Elective/minor TOTAL Fall Semester	3 3 15	Gen Ed: Individual & Society Elective/minor (300-level or higher) Elective/minor (300-level or higher) TOTAL Spring Semester MAT 430 Complex Variables ³ or MAT/STA major elective (300-	3 3 15
FOURTH YEAR	Gen Ed: Individual & Society Gen Ed: Culture & Creativity Elective/minor TOTAL Fall Semester MAT 410 Abstract Algebra I or MAT 420 Real Variables I ²	3 3 15	Gen Ed: Individual & Society Elective/minor (300-level or higher) Elective/minor (300-level or higher) TOTAL Spring Semester MAT 430 Complex Variables ³ or MAT/STA major elective (300-level or higher)	3 3 15
FOURTH YEAR	Gen Ed: Individual & Society Gen Ed: Culture & Creativity Elective/minor TOTAL Fall Semester MAT 410 Abstract Algebra I or MAT 420 Real Variables I ² Gen Ed: Global Viewpoints	3 3 15 3	Gen Ed: Individual & Society Elective/minor (300-level or higher) Elective/minor (300-level or higher) TOTAL Spring Semester MAT 430 Complex Variables ³ or MAT/STA major elective (300-level or higher) Elective/minor	3 3 15 3
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GRAND TOTAL OF CREDITS				
	TOTAL	15	TOTAL	15
			Examination	
			MAT 489 Comprehensive	0
	(300-level or higher)		(300-level or higher)	
	Elective/minor	3	Elective/minor	3
	(300-level or higher)		(300-level or higher)	

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.

²MAT 410 is offered fall-only in even years. MAT 420 is offered fall-only odd years.

³MAT 415 is offered spring-only odd years. MAT 430 is offered spring-only even years.