SAMPLE 4-YEAR PLAN: PURE MATHEMATICS B.S.

Northern Kentucky University

This is **one way** a student can complete this program in four years if the student requires no remedial courses.

MAJOR: Mathematics TRACK: Pure Mathematics

FIRST YEAR	Fall Semester		Spring Semester	
	MAT 129 Calculus I ¹	4	MAT 229 Calculus II	5
	MAT 194 Mathematical	1	STA 250 Probability and	3
	Sciences Seminar		Statistics I	
	Gen Ed: Communication; Written I	3	Gen Ed: Communication; Oral	3
	General education	3	Elective/minor	3
	Elective/minor	3		
	TOTAL	14	TOTAL	14
SECOND YEAR	Fall Semester		Spring Semester	
	CSC 270 Mathematics Software Programming	3	MAT 234 Linear Algebra	3
	MAT 329 Calculus III	4	MAT 302 Introduction to	3
			Higher Mathematics	
	Gen Ed: Communication;	3		4
	Written II		Quantitative Inquiry; Natural	
			Sciences with lab	
	Gen Ed: Scientific and Quantitative Inquiry; Natural Sciences without lab	3	General education	3
	Elective/minor	3	Elective/minor	3
	TOTAL	16	TOTAL	16
THIRD YEAR	Fall Semester		Spring Semester	
	MAT 410 Abstract Algebra I or MAT 420 Real Variables I ²	3	or MAT 430 Complex	3
	111 - 10 - 1		Variables ³	_
	MAT/STA major elective	3	•	3
	General education	3		3
	Elective / minor	3		3
	Elective / minor 300 level or above	3	Elective / minor 300 level or above	3
	TOTAL	15	<u> </u>	15
FOURTH YEAR	Fall Semester		Spring Semester	
	¹ MAT 410 Abstract Algebra I	3		3
	or MAT 420 Real Variables I ²			
	General education	3	MAT 430 Complex Variables or MAT/STA major elective	3
	Elective / minor	3	Elective / minor	3
	Elective / minor 300 level or	3		3
	above			
	Elective / minor 300 level or above	3	Elective / minor 300 level or above	3
			MAT 489 Comprehensive	0
	TOTAL	15	Examination TOTAL	15

Notes: This plan is ONE way in which you can complete your degree program in four years; it is not the only way. It assumes that you have a mathematical background sufficient to begin with calculus as evidenced by a mathematics ACT score of 25 or greater, or a mathematics SAT score of 570 or greater. It also assumes that you are not a transfer student, and you are beginning in the fall.

¹MAT 129 satisfies the mathematics general education requirement.

²The two-semester sequences MAT 410 - MAT 415 and MAT 420 - MAT 421 are offered on alternate years.

³ Beginning Spring 2018, MAT 430 will be offered in spring semesters of even-numbered years.