

MATHEMATICS MAJOR CHECKLIST

Academic Year 2016 - 2017

CORE COURSES:	<input type="checkbox"/>	MAT 129 Calculus I	OR	<input type="checkbox"/>	MAT 128 Calculus A
	<input type="checkbox"/>	MAT 229 Calculus II		<input type="checkbox"/>	MAT 227 Calculus B
	<input type="checkbox"/>			<input type="checkbox"/>	MAT 228 Calculus C
	<input type="checkbox"/>	MAT 194 Mathematical Sciences Seminar			
	<input type="checkbox"/>	MAT 234 Linear Algebra			
	<input type="checkbox"/>	STA 250 Probability and Statistics I			
	<input type="checkbox"/>	CSC 270 Mathematics Software Programming (or CSC 260)			
	<input type="checkbox"/>	MAT 329 Calculus III			
<input type="checkbox"/>	MAT 489 Comprehensive Exam				

ELECTIVE COURSES: One of the following course tracks:	Pure Mathematics Track:		<input type="checkbox"/>	MAT 302 Introduction to Higher Mathematics
			<input type="checkbox"/>	MAT 310 Elementary Theory of Numbers OR MAT 410 Abstract Algebra
			<input type="checkbox"/>	MAT 420 Real Variables I AND MAT 430 Complex Variables
			<input type="checkbox"/>	THREE 300-level or above courses, including at least TWO 400-level courses (excluding MAT/STA 490/491)
			<input type="checkbox"/>	_____
			<input type="checkbox"/>	_____
			<input type="checkbox"/>	_____
	Applied Mathematics Track:		<input type="checkbox"/>	CSC 270 Mathematics Software Programming OR (not chosen in core) CSC 260 Object-Oriented Programming I
			<input type="checkbox"/>	MAT 325 Differential Equations
			<input type="checkbox"/>	TWO of: MAT 330 Classical Applied Analysis; MAT 360 Numerical Analysis; MAT 375 Applied Mathematical Models; MAT 430 Complex Variables; MAT 483 Cryptology
			<input type="checkbox"/>	THREE 300-level or above courses (excluding MAT/STA 490/491)
			<input type="checkbox"/>	_____
			<input type="checkbox"/>	_____
General Mathematics Track:		<input type="checkbox"/>	MAT 302 Introduction to Higher Mathematics	
		<input type="checkbox"/>	MAT 310 Elementary Theory of Numbers OR MAT 410 Abstract Algebra	
		<input type="checkbox"/>	MAT 345 Introduction to Geometry	
		<input type="checkbox"/>	STA 341 Statistics II	
		<input type="checkbox"/>	ONE additional 300-level or above course _____	
		AND ONE OF THESE SEQUENCES OF COURSES:		
		<input type="checkbox"/>	STA 340 Probability II AND one other 300-level or above course _____	
		<input type="checkbox"/>	_____	
		<input type="checkbox"/>	MAT 310 Elementary Theory of Numbers OR MAT 410 Abstract Algebra I AND ONE other 300-level or above course _____	
		<input type="checkbox"/>	_____	
		<input type="checkbox"/>	MAT 325 Differential Equations AND MAT 375 Applied Mathematical Models	
		<input type="checkbox"/>	TWO 400-level courses (excluding MAT/STA 490/491)	
		<input type="checkbox"/>	_____ and _____	
		<input type="checkbox"/>	_____	

A grade of 'C-' or better is required in each course applied to the major. At least 9 semester hours towards the major must be taken at NKU

The Double Major in Mathematics and Statistics: A double major in mathematics and statistics consists of satisfying the degree requirements of both majors with a minimum of 58 credit hours of courses applicable to either major.