

DEPARTMENT OF MATHEMATICS UNDERGRADUATE COURSE OFFERINGS

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1000 level

TENTATIVE COURSE FORECAST

NEW KSU COURSE #	TITLE	PREREQUISITE The course numbers shown are the NEW KSU course numbers.	Previous KSU COURSE #	Previous SPSU COURSE #	FALL	SPRING	SUMMER
MATH 1101	Mathematical Modeling		MATH 1101	MATH 1101	✓	✓	✓
MATH 1107	Intro to Statistics	[at least a D in one of MATH 1101, 1111, 1112, 1113, or 1190]	MATH 1107	MATH 1401	see STAT dept course forecast		
MATH 1111	College Algebra		MATH 1111	MATH 1111	✓	✓	✓
MATH 1112	College Trigonometry	^a recommended placement from MAPT into MATH 1112	MATH 1112		✓	✓	✓
MATH 1113	Precalculus	^a recommended placement from MAPT into MATH 1113	MATH 1113	MATH 1113	✓	✓	✓
MATH 1160	Elementary Applied Calculus	[at least a C in one of MATH 1111, 1112, or 1113]	MATH 1106	MATH 2240	✓	✓	✓
MATH 1190	Calculus I	^a [at least a C in one of MATH 1112 or 1113]	MATH 1190	MATH 2253	✓	✓	✓

2000 level

TENTATIVE COURSE FORECAST

NEW KSU COURSE #	TITLE	PREREQUISITE The course numbers shown are the NEW KSU course numbers.	Previous KSU COURSE #	Previous SPSU COURSE #	FALL	SPRING	SUMMER
MATH 2008	Foundations of Numbers and Operations	[at least a D in MATH 1107]	MATH 2008		✓	✓	✓
MATH 2202	Calculus II	[at least a C in MATH 1190]	MATH 2202	MATH 2254	✓	✓	✓
MATH 2203	Calculus III	[at least a C in MATH 2202]	MATH 2203	MATH 2255	✓	✓	✓
MATH 2306	Ordinary Differential Equations	[at least a C in MATH 2202]	MATH 3310	MATH 2306	✓	✓	✓
MATH 2332	Intro to Probability and Data Analysis	[at least a C in MATH 1190]	MATH 2332	MATH 2260	✓	✓	✓
MATH 2335	Numerical Methods for Engineers	^b [at least C's in MATH 2202 and one of CS 1301, CSE 1301 or 1311, or ECET 3830 or 3710]		MATH 2335	✓	✓	
MATH 2345	Discrete Mathematics	[at least a C in one of MATH 1112, 1113, or 1190]		MATH 2345	✓	✓	✓
MATH 2390	Intro to Logic, Set Theory and Proofs	[at least a C in MATH 2202]	MATH 2390	MATH 3310	✓	✓	✓

3000 level

TENTATIVE COURSE FORECAST

NEW KSU COURSE #	TITLE	PREREQUISITE The course numbers shown are the NEW KSU course numbers.	Previous KSU COURSE #	Previous SPSU COURSE #	FALL	SPRING	SUMMER
MAED 3475	Modern and Historical Approaches to Mathematics	[Adm to TE]	MAED 3475	STS 3347		✓	
MATH 3000	Software of Mathematics	^b [at least C's in MATH 2202 and CS 1301]	MATH 3000	MATH 3796		EVEN YEARS ONLY	
MATH 3204	Calculus IV	[at least a C in MATH 2203]		MATH 4407		✓	
MATH 3260	Linear Algebra I	[at least a C in MATH 1190]	MATH 3260	MATH 3312	✓	✓	✓
MATH 3261	Numerical Methods I	^b [at least C's in MATH 3260 and CS 1301]	MATH 3261		✓	✓	
MATH 3272	Intro to Linear Programming	^b [at least C's in MATH 3260 and CS 1301]	MATH 3272		EVEN YEARS ONLY		
MATH 3295	Mathematics for Middle Grades and Secondary Teachers	[at least a C in MATH 1190]	MATH 2595		✓		
MATH 3316	Rational Numbers and Proportional Reasoning for Elementary Teachers	[at least a C in MATH 2008]	MATH 3316		✓	✓	✓
MATH 3317	Geometry and Measurement for Elementary Teachers	[at least a C in MATH 3316 and Adm to TE]	MATH 3317		✓	✓	✓
MATH 3318	Algebra for Elementary Teachers	[at least a C in MATH 3317 and Adm to TE]	MATH 3318		✓	✓	✓

(more 3000 and 4000 level options on the next page)

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3000 level (continued)

TENTATIVE COURSE FORECAST

NEW KSU COURSE #	TITLE	PREREQUISITE <small>The course numbers shown are the NEW KSU course numbers.</small>	Previous KSU COURSE #	Previous SPSU COURSE #	FALL	SPRING	SUMMER
MATH 3322	Graph Theory	^c [at least a C in one of MATH 2345 or MATH 2390]	MATH 3322	see advisor	✓	✓	varies
MATH 3324	Enumerative Combinatorics	^c [at least a C in one of MATH 2345 or MATH 2390]	MATH 4322	MATH 3396	✓	✓	varies
MATH 3332	Probability and Inference	[at least a C in MATH 2202]	MATH 3332	MATH 3268	✓	✓	varies
MATH 3390	Intro to Mathematical Systems	[at least a C in MATH 1190]	MATH 3390			✓	
MATH 3395	Geometric Proofs and Applications	[at least a C in one of MATH 2390 or 3390]	MATH 3395	see advisor	✓		
MATH 3396	Cooperative Study	[Department Approval]	MATH 3396		as needed	as needed	as needed
MATH 3398	Internship	[Department Approval]	MATH 3398		as needed	as needed	as needed
MATH 3405	Probabilistic Foundations of Actuarial Science	[at least C's in MATH 2203 and 3332]	MATH 3405		varies		
MATH 3495	Advanced Perspectives on School Mathematics I	[at least a C in MATH 3295 and at least a C in one of MATH 2390 or 3390]	MATH 3495	MAED 2010		✓	
MATH 3496	Elementary Number Theory	^c [at least a C in MATH 2390]	MATH 4717	MATH 3496		EVEN YEARS ONLY	
MATH 3696	College Geometry	[at least a C in MATH 2202]		MATH 3696	varies		
STAT 3120	Statistical Methods I	[at least a C in STAT 3010 and at least a C in one of STAT 3120 or 3125]	STAT 3120	MATH 3261	see STAT dept course forecast		

4000 level

TENTATIVE COURSE FORECAST

NEW KSU COURSE #	TITLE	PREREQUISITE <small>The course numbers shown are the NEW KSU course numbers.</small>	Previous KSU COURSE #	Previous SPSU COURSE #	FALL	SPRING	SUMMER
MAED 4000	Service Learning in Mathematics Education	[60 hours and Department Approval]	MAED 4000		as needed	as needed	as needed
MAED 4400	Directed Study in Mathematics Education	[Professor and Department Approval]	MAED 4400		as needed	as needed	as needed
MAED 4415	Teaching of Mathematics (6-12) I	[Adm to TE; coreq: MATH 3495]	MAED 4415	EDUC 2020		✓	
MAED 4416	Teaching of Mathematics (6-12) II	[at least C's in EDUC 2130, MATH 3495, MAED 3475, MAED 4416 and Adm to TE]	MAED 4416	EDUC 4030	✓		
MAED 4417	TOSS Practicum	[Adm to TOSS; coreq: MATH 4416]	MAED 4417		Fall only, will be MAED 4650 starting F'17		
MAED 4475	Student Teaching in Secondary Mathematics	[at least C's in MAED 4416, MAED 4417, and Adm to ST]	MAED 4475	EDUC 4406	Spring only, will be MAED 4660 starting SP '18		
MAED 4490	Special Topics in Mathematics Education	[Varies, See Schedule of Classes]	MAED 4490		as needed	as needed	as needed
MAED 4498	Internship in Teaching Mathematics (6-12)	[Department Approval]	MAED 4498		as needed	as needed	as needed
MATH 4260	Linear Algebra II	[at least a C in MATH 3260]	MATH 4260			✓	
MATH 4310	Partial Differential Equations	[at least C's in MATH 2203 and 2306]	MATH 4310	MATH 4406	ODD YEARS ONLY		
MATH 4345	Numerical Methods II	^b [at least C's in MATH 2306 and CS 1301]	MATH 4345	MATH 3336		ODD YEARS ONLY	
MATH 4361	Modern Algebra I	^c [at least C's in MATH 2390 and 3260]	MATH 4361	MATH 4440	✓	✓	varies
MATH 4362	Modern Algebra II	[at least a C in MATH 4361]	MATH 4362		varies		
MATH 4381	Real Analysis I	^c [at least a C in MATH 2390]	MATH 4381	MATH 3320	✓	✓	varies
MATH 4382	Real Analysis II	[at least a C in MATH 4381]	MATH 4382	MATH 3321		✓	
MATH 4391	Complex Analysis	[at least a C in MATH 2203]	MATH 4391	MATH 4417	✓		
MATH 4400	Directed Study in Mathematics	[Professor and Department Approval]	MATH 4400		as needed	as needed	as needed
MATH 4490	Special Topics in Mathematics	[Varies, See Schedule of Classes]	MATH 4490	MATH X901-X905	as needed	as needed	as needed

(more 4000 level options on the next page)

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4000 level (continued)

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MATH 4495	Advanced Perspectives on School Mathematics II	[at least a C in MATH 3495]	MATH 4495		✓		
MATH 4596	Topology	^c [at least a C in MATH 2390]		MATH 3596	EVEN YEARS ONLY		
MATH 4699	Undergraduate Research in Mathematics	[Professor and Department Approval]	MATH 4699	MATH 4451	as needed	as needed	as needed

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Comments and exceptions regarding prerequisite coursework:

^a The Mathematics Advising Placement Tests are a series of online assessments, available at <http://placement.kennesaw.edu>, designed to help students know where to start their first MATH class if their academic goal is to eventually reach MATH 1190 Calculus I. If MAPT results recommend placement into MATH 1190 Calculus I, students should request a prereq override through <http://math.kennesaw.edu/resources/forms/prereq-bypass-request.html>. Students with credit in MATH 1111 or MATH 1112 should not take MATH 1113. MATH 1111 and MATH 1112 is a two-semester sequence of the one semester MATH 1113 course.

^b CS 1301 Programming Principles I used to be CS 2301 at KSU and CSE 1301J at SPSU; the CSE 1301C and CSE 1301E courses from SPSU are acceptable alternative programming courses, which are renumbered as CSE 1301 and CSE 1311, respectively, as a result of the consolidation.

^c MATH 2390 Intro to Logic, Set Theory, and Proofs started at KSU in Spring 2014; prior to this, students took MATH 3390 Intro to Mathematical Systems instead. Students with at least a C in KSU's MATH 3390 prior to SP'14 would qualify for courses where MATH 2390 is a prereq, if they also have at least a C in MATH 2202 Calculus II as well.

