Checklist for Mathematics Major with Elementary Education Track

The Elementary Track applies only to those students who are pursuing a concurrent Major in Education with a licensure emphasis in Elementary (1-6). If a student withdraws from the Education Major, then the option to pursue the Elementary Track in the Mathematics Major no longer applies. Mathematics Majors who are pursuing licensure in Middle/Secondary Education (5-8; 8-12) would follow the requirements for the Mathematics Major.

- Students interested in the mathematics major should follow your math placement, and take Calculus I as early as possible, because it is part of the major required sequence MAT 117/13H1, 118/132H, 231.
- Students considering a major in mathematics are encouraged to take MAT 131H/132H rather than MAT 117/118 in their first year.

Required Courses (6)

Requirement	Course	Fall	Spring	Prerequisite	Semester	Completed
					Planned	
Calculus I	MAT 131H or	х		Placement		
	MAT 117	х	х	MAT 114 or placement	1	
Calculus II	MAT 132H or		Х	MAT 131H		
	MAT 118	х	х	MAT 117	1	
Calculus III	MAT 231	х		MAT 118 or MAT 132H		
Numbers and Operations for	MAT 150	х	х	MAT 114 or placement		
Education						
Discrete Structures	MAT 202	х		MAT 118/132H, or coreq.		
Linear Algebra	MAT 203		х	MAT 202		
Senior Math Assessment (Comp.		х	х	Senior math major		
Exam, not a course)						

Electives (4)

Requirement	Course	Fall	Spring	Prerequisite	Semester Planned	Completed
A. Take at least one of:						
Real Analysis	MAT 332	Odd		MAT 202 and MAT 231		
Modern Algebra **	MAT 351	Even		MAT 202		
Topology	MAT 358		Even	MAT 202 and MAT 231		
B. Take at least one more 300+	level from abo	ve or from	n B:			
Modern Algebra II	MAT 352		Odd	MAT 351		
Adv. Euclidean Geometry **	MAT 353	Odd		MAT 118/132H and MAT 202		
Differential Equations	MAT 355		Odd	MAT 231, or corequisite		
Numerical Analysis	MAT 356		Even	MAT 118/132H		
Mathematics Thesis	MAT 402	Х	Х	Senior math major		
C. Take at least two more 200+	level Math cou	urses from	above,	or:		
Number Theory **	MAT 204		Even	MAT 202		
Actuarial Mathematics	MAT 207	Even		MAT 202		
Probability Theory **	MAT 208		х	MAT 118/132H		
Intro to Engineering	PHY 213		Х	MAT 118/132H, or coreq.		

^{**} recommended electives for Elementary Education track

Suggested Schedule for Mathematics Major with Elementary Education Track

See Assumption's Catalog for additional information required for Elementary Education major and Foundations requirements.

First Year: Fall 20	Spring 20
1. MAT 131H Honors Calculus I (Fall only), or MAT 117	1. MAT 132H Honors Calculus II (Spring only), or MAT
Calculus I (any semester), or follow your math	118 Calculus II (any semester). Finish Calculus II as
placement	soon as possible.
	2.
3.	3.
4.	4.
5.	5.

Second Year: Fall 20	Spring 20
1. MAT 202 Discrete Structures (Fall)	1. MAT 203 Linear Algebra (Spring)
2. MAT 231 Calculus III (Fall)	2. MAT 150 Numbers and Operations for Educators
	(any semester)
3.	3.
4.	4.
5.	5.

Third Year: Fall 20	Spring 20
1. Math Major Elective #1/4 *	1. Math Major Elective #2/4 *
2.	2. Math Major Elective #3/4 *
3.	3.
4.	4.
5.	5.

Fourth Year: Fall 20	Spring 20
1. Math Major Elective #4/4 *	1
2	2.
3.	3.
4.	4.
5.	5.
Senior Math Assessment Exam; not a course	

^{* =} electives may be taken any semester prior to Spring Senior Year