

Program Map, BA/BS Mathematics

Crns	Prps	Audience	Program Goals				Skills					General				
			PG1	PG2	PG3	PG4	Sk1	Sk2	SK3	SK4	SK5	R	FS	WI	O	
100	S	General	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	I&A		
111	S	Elem Edu	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	I		
112	S	Elem Edu	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	I&A		
190	M/S	STEM	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		
203	S	Business	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	I&A		
215	S	Life Sci	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	I		
216	S	Life Sci	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	C		
241	M/S	STEM	I	n/a	n/a	n/a	n/a	n/a	n/a	n/a	I	I	n/a	I		
242	M/S	STEM	C	n/a	n/a	n/a	n/a	n/a	n/a	n/a	C	C	n/a	C		
243	M/S	STEM	C	n/a	n/a	n/a	n/a	n/a	n/a	n/a	C	C	n/a	C		
244	M/S	STEM	C	n/a	n/a	n/a	n/a	n/a	n/a	n/a	C	C	n/a	C		
251	M/S	STEM/Hon	I	n/a	n/a	n/a	n/a	n/a	I	n/a	I	I	n/a	I		
252	M/S	STEM/Hon	C	n/a	n/a	n/a	n/a	n/a	C	n/a	C	C	n/a	C		
253	M/S	STEM/Hon	C	n/a	n/a	n/a	n/a	n/a	C	n/a	C	C	n/a	C		
257	S	Sec Edu	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		I
301	S	Sec Edu	n/a	n/a	I	n/a	n/a	n/a	n/a	n/a	I	n/a	n/a			
302	M/S	STEM	n/a	n/a	I	n/a	n/a	n/a	n/a	n/a	I	I	n/a			
303	M/S	STEM	n/a	n/a	C	n/a	n/a	n/a	n/a	n/a	C	C	n/a			
304	M/S	Maj/Life Sci	n/a	n/a	I	n/a	n/a	n/a	n/a	n/a	n/a	E	n/a			
305	M/S	Maj/Life Sci	n/a	n/a	C	n/a	n/a	n/a	n/a	n/a	n/a	E	n/a			
307	S	Eng	n/a	I	I	n/a	n/a	n/a	n/a	n/a	I	I	n/a			
311	M	Math	n/a	I	I	n/a	I&E&A	I&E&A	n/a	I	n/a	n/a	n/a		I	
321	M	Math	n/a	n/a	I	n/a	I&E&A	I&E&A	I	n/a	n/a	n/a	n/a		I&A	
331	M	Math	n/a	n/a	I	I&E	I&E&A	I&E&A	n/a	n/a	n/a	n/a	n/a			
351	M/S	SecEd	n/a	n/a	I	n/a	I&E	I&E	n/a	n/a	n/a	n/a	n/a		I	
352	M/S	SecEd	n/a	n/a	C	n/a	C&E	I&E	n/a	n/a	n/a	n/a	n/a		C	
371	M/S	STEM	n/a	n/a	I	n/a	n/a	n/a	n/a	n/a	I	I	n/a			
373	M/S	STEM	n/a	n/a	C	n/a	n/a	n/a	n/a	n/a	C	C	n/a			
402	M/S	STEM	n/a	n/a	n/a	I&E&A	n/a	n/a	n/a	n/a	I	E	n/a			
403	M/S	STEM	n/a	n/a	n/a	C&E&A	n/a	n/a	n/a	n/a	C	E	n/a			
407	M/S	Math/Eng	n/a	n/a	n/a	I&E&A	n/a	n/a	n/a	n/a	I	I	n/a			
408	M	Math	n/a	n/a	n/a	C&E&A	n/a	n/a	n/a	n/a	C	C	n/a			
411	M	Math	n/a	C&A	E	n/a	C&E	C&E&A	I	n/a	n/a	n/a	n/a			
412	M/S	Math/SecEd	n/a	n/a	n/a	I&E&A	C&E	C&E&A	I	n/a	n/a	n/a	n/a		C&A	
413	M	Math	n/a	n/a	n/a	C&E&A	C&E	C&E&A	C	n/a	n/a	n/a	n/a		C&A	
414	M/S	Math/Gen	n/a	n/a	n/a	I&E&A	n/a	n/a	n/a	n/a	I	I	n/a			
416	M/S	Math/Gen	n/a	n/a	n/a	C&E&E	n/a	n/a	n/a	n/a	C	C	n/a			
420	M	Math	n/a	n/a	E	n/a	C&E	C&E&A	I	n/a	n/a	n/a	n/a		C&A	
421	M	Math	n/a	n/a	E	n/a	C&E	C&E&A	I	n/a	n/a	n/a	n/a			
431	M	Math	n/a	n/a	n/a	I&E&A	C&E	C&E&A	I	n/a	n/a	n/a	n/a		C&A	
432	M	Math	n/a	n/a	n/a	C&E&A	C&E	C&E&A	C	n/a	n/a	n/a	n/a		C&A	
442	M/S	STEM	n/a	I	E	n/a	n/a	I	I	n/a	I	n/a	n/a			
443	M/S	STEM	n/a	n/a	E	n/a	C	I	I	n/a	I	n/a	n/a			
444	M/S	STEM	n/a	n/a	E	n/a	C	I	I	I	I	n/a	n/a			
454	M/S	Math/SecEd	n/a	n/a	n/a	I&E&A	C&E	C&E&A	I	n/a	n/a	n/a	n/a			
455	M	Math	n/a	n/a	n/a	C&E&A	C&E	C&E&A	C	n/a	n/a	n/a	n/a			
471	M/S	STEM	n/a	n/a	n/a	I&E&A	n/a	n/a	n/a	n/a	I	C	n/a			

Program Map, BA/BS Mathematics

472	M/S	STEM		n/a	n/a	n/a	C&E&A	n/a	n/a	n/a	C	C	n/a			
475	M	Math		n/a	n/a	E	n/a	C&E	I&E&A	I	n/a	n/a	n/a			
480	M	Math		n/a	n/a	n/a	n/a	C&E	n/a	C	n/a	n/a	I			I
Explanations																
Column1		Course Number														
Column2		Math or Service														
PG1		Goal: Learn, understand, and be able to apply calculus in one and several variables														
PG2		Goal: Learn, understand, and be able to apply linear algebra and the theory of vector spaces														
PG3		Goal: Study and learn several mathematics topic at junior and senior level														
PG4		Goal Study and learn in-depth advanced to														
Sk1		Skill: Develop and write direct proofs, proofs by contradiction, and proofs by induction.														
SK2		Skill: Formulate definitions and give examples and counter examples.														
SK3		Skill: Read mathematics without supervision.														
Sk4		Skill: Follow and explain algorithms.														
Sk5		Apply mathematics to other fields.														
R		Learn about research.														
I		Introduced														
C		Continued														
E		Emphasized														
A		Assessed														