

Academic Program Sequence Map

Program Degree Type and Name: **BS Mathematics / MS Adolescence Education Mathematics - Initial Certification**

Catalog Year: **2021-2022**

Program Level: **Undergraduate**

Academic Term Type: **Semester**

** Denote core course with an asterisk and (cc) next to the course number*

Year and Term: Year 1, Fall Term		Credits Per Classification				
Course Number & Title	CR	GE	Maj	OE	SM	Co / Prerequisite(s)
Math 116 (College Algebra)	3	X			C or Higher	
CISC 120 (Intro Comp. & App Software)	3	X				ENGL 109 or dept. approval
English 111 (Writ. Eng. and Lit. Studies I)	3	X				
Gen Ed or ENGL 110 (Elmnts of Expos.)	3	X				
SPCM 110 (Oral Communication)	3	X				
Term Credit Total:	15	15	0	0		

Year and Term: Year 2, Fall Term		Credits Per Classification				
Course Number & Title	CR	GE	Maj	OE	SM	Co / Prerequisite(s)
Math 231 (Foundations of Comp. 2)	3		X		C or Higher	MATH/CISC 131 or dept approval
Math 260 (Calculus 1)	4		X		C or Higher	Math 201
Gen Ed	3	X				
Gen Ed	3	X				
Gen Ed	3	X				
Term Credit Total:	16	9	7	0		

Year and Term: Year 3, Fall Term		Credits Per Classification				
Course Number & Title	CR	GE	Maj	OE	SM	Co / Prerequisite(s)
Math 360 (Calculus 3)	4		X			Math 261
Math 350 (Probability Theory & App)	3		X			Math 261
Math 315 (Linear Algebra)	3		X			Math 260
JRSM 301 (Junior Seminar)	3	X				ENGL 112, SPCM 110, MATH116
Gen Ed	3	X				
Term credit total:	16	6	10	0		

Year and Term: Year 4, Fall Term		Credits Per Classification				
Course Number & Title	CR	GE	Maj	OE	SM	Co / Prerequisite(s)
EDUC 502 (Fnd in Ed for St w/Disabilities)	3			X		
Major Elective	3		X			
Gen Ed	3	X				
Gen Ed	3	X				
EDUC 505 (Tcg Eng as a Second Lang)	3			X		
Term Credit Total:	15	6	3	6		

Year and Term: Year 5, Fall Term		Credits Per Classification				
Course Number & Title:	CR	GE	Maj	OE	SM	Co / Prerequisite(s)
EDUC 506 (Ed Eval and Assessment)	3		X			
*EDUC 511A (Meth and Mat. Sec Math Ed) (cc)	3		X			12 credits
EDUC 643 (Rdg and Writing in Content Areas)	3		X			EDUC 507
MTHE 535 Problem Solving in Mathematics	3		X			
OR						
MTHE 542 Enhancing Math w STEM	3		X			
Term Credit Total:	12	0	12	0		

Year and Term: Year 1, Spring Term		Credits Per Classification				
Course Number & Title	CR	GE	Maj	OE	SM	Co / Prerequisite(s)
Math 201 (Precalculus)	3	X				Math 116 or B in hs algebra
Math 131 (Foundations of Comp. 1)	3		X			CISC/Math 120 or dept approval
ENGL 112 (Writ Eng. and Lit. Studies II)	3	X				
CINQ 101 (Critical Inquiry)	3	X				
Gen Ed	3	X				
Term Credit Total:	15	12	3	0		

Year and Term: Year 2, Spring Term		Credits Per Classification				
Course Number & Title	CR	GE	Maj	OE	SM	Co / Prerequisite(s)
Math 261 (Calculus 2)	4		X		C or Higher	Math 260
Math 244 (Discrete Structures)	3		X			Math 201
Gen Ed	3	X				
Gen Ed	3	X				
Term Credit Total:	13	9	7	0		

Year and Term: Year 3, Spring Term		Credits Per Classification				
Course Number & Title	CR	GE	Maj	OE	SM	Co / Prerequisite(s)
Math 351 (Statistics: Theory & App)	3		X			Math 261, Math 350 or dept. Approval
Math 307 (Number Theory)	3		X			Math 261
Gen Ed	3	X				
Gen Ed	3	X				
EDUC 500 (Ed Found Diverse Perspectives)	3			X		
Term Credit Total:	15	6	6	3		

Year and Term: Year 4, Spring Term		Credits Per Classification				
Course Number & Title	CR	GE	Maj	OE	SM	Co / Prerequisite(s)
Major Elective	3		X			Math 315, Math 350 or 360
Math 365 (Algebraic Structures)	3		X			Math/CIS 315
*Math 417 (Mathematical Modeling) (cc)	3		X			CISC/MATH 213, MATH 380/360
EDUC 507 (Approaches to Lit. Instruc)	3			X		
EDUC 517 (Ed Psych & Adol. Development)	3			X		
Term Credit Total:	15	0	9	6		

Year and Term: Year 5, Spring Term		Credits Per Classification				
Course Number & Title	CR	GE	Maj	OE	SM	Co / Prerequisite(s)
MTHE 536 (History of Mathematics) <i>or</i>	3		X			
MTHE 543 Robotics & Programming for the Classroom	3					
EDUC 518 Meth and Mat. Midd. Child.	3		X			
EDUC 713 St Tchg Exp	3		X			30 credits, Director's approval
Term Credit Total:	9	0	9	0		

Program Totals	Credits: 141	General Education: 60	Major & Major Elective: 45	Open Elective: 15
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Legend: CR: Credits GE: General Education Maj: Major / Major Elective OE: Open Elective SM: Success Marker Co/Prerequisite(s): List of co/ prerequisites for noted course