Mathematics Education: Mathematics Specialization (9-12)

Intro to Education (C or better required)	Natural Sciences		
(2) ED 100 (Fall Freshmen) OR	(4) CH 101/102 and (4) CH 201/202		
(2) ED 150/151-SAY Village (Fall & Spring Freshmen)	OR (4) NO 101 and (4) NO 103		
Introduction to Computing	(4) BIO 181 and (4) BIO 183 OR		
Introduction to Computing (1) E 115 or COS 100	(4) PY 205/206 and (4) PY 208/209		
(2) = 225 0. 000 200	OR		
Programming Elective	(4) PY 211 and (4) PY 212		
(3) CSC 110, CSC 112, CSC 114, CSC 116, or MA 116			
C or better required — recommend MA 116	(3) GEP Natural Science course		
English and Communication	GEP Courses		
(4) ENG 101 Academic Writing & Research	(3) Choose a course from the GEP Humanities list		
C- or better required	(3) Choose a course from the GEP Humanities list		
(3) COM 112 Interpersonal Communication	(1) Any 100 level Health & Exercise Studies		
	(1) Any HE Course		
Mathematical Sciences (C or better required)	(3) Additional Breadth – Choose one GEP Humanities, Social		
(4) MA 141 Calculus I	Sciences, or Visual Performing Arts course (Strongly Recommend ECI 305)		
(4) MA 241 Calculus II	(2-3) Interdisc Perspectives		
Prerequisite: MA 141 with grade of C- or better			
(4) MA 242 Calculus III	USD and GK may "double-count" for both co-req and another GEP Requirement		
Prerequisite: MA 241 with grade of C- or better	US Diversity Co-Requisite		
(3) MA 351 Intro Discrete Math (<u>FALL ONLY</u>) MA 341 is an approved substitution. Recommended take Junior year	Global Knowledge Co-Requisite		
Prerequisite: MA 224, 225, 231 or 241	Foreign Language Proficiency		
(3) MA 225 Foundations of Advanced Math	Totelgit Language Proficiency		
Prerequisite: MA 241			
(3) MA 405 Linear Algebra			
Prerequisite: MA 241			
(3) MA 403 Introduction to Modern Algebra (FALL ONLY)			
Prerequisite: MA 225			
(3) MA 408 Foundations of Euclidean Geometry Take Fall Senior Year			
Prerequisite: MA 225			
(3) Mathematics Elective (see degree audit)			
(3) Mathematics Elective (see degree audit)			
(3) ST 311 Introduction to Statistics (3) ST 312 Introduction to Statistics II			
(1) ST 307 Introduction to Statistics ii			
(=/			
	urses below unless otherwise stated		
	OMORE YEAR		
Fall Semester (2) EMS 204 Intro to Mathematics Education <i>B- or better required</i>	Spring Semester (3) ECI 305 Education and Equity		
(2) ED 204 Intro to 21st Century Teaching	(3) Eci 303 Education and Equity		
	NIOR YEAR		
Fall Semester	Spring Semester		
(3) ELP 344 School and Society	(3) EMS 480 Teaching Mathematics with Technology (SPRING ONLY)		
(3) EDP 304 Education Psychology	Prerequisite: EMS 204 with a B- or better; MA 131 or 141		
(2) ED 311 Classroom Assessment Prerequisite: ATC	(3) EMS 472 Teaching Math Topics in High School		
(1) ED 312 Classroom Assessment Lab	(3) ECI 416 Teaching Exceptional Students		
SEP	NIOR YEAR		
Fall Semester	Spring Semester Prior admission to Professional Semester required		
(3) EMS 490 School Math from an Adv. Perspective	(10) EMS 471 Student Teaching (Spring Only)		
(3) EMS 470 Methods & Materials for Teaching Math	(2) EMS 495 Senior Seminar		
Co-requisite: EMS 472			
Tako EMS 473 9, 400 hafara tha camastas inhis	th you take EMS 470 8, 400 (Professional Semester 1)		
Take EMS 472 & 480 <i>before</i> the semester in which you take EMS 470 & 490. (Professional Semester 1) At most one grade below a C- is permitted in the courses satisfying the science requirement.			
At most one grade below a C- is permitted in the courses satisfying the science requirement. At most one grade below a C is permitted in the mathematics, statistics, and computer science courses.			
ompleted out of 4.5			

Updated	2/11	1/20	121
Opuuleu	2/11	/20	<i>'</i> ∠ ⊥

ATC REQUIREMENTS (Admission to Teacher Candidacy): ___ENG 101 ___2 Math courses ___EMS 204/ED 204 ___GPA at least 2.75 ___Praxis I Must have met ATC in order to register for ED 311/312. View your progress in SAGE → "Gateways" tab