

Mathematics Education: Math Ed and Math Dual Degree (9-12)

Intro to Education (*C or better required*)

- ____ (2) ED 100 (Fall Freshmen) OR
 ____ (2) ED 150/151-SAY Village (Fall & Spring Freshmen)

Introduction to Computing

- ____ (1) E 115 or COS 100
 ____ (3) CSC 112, CSC 114, CSC 116, or MA 116
C or better required – recommend MA 116

English and Communication

- ____ (4) ENG 101 Academic Writing & Research
C- or better required
 ____ (3) COM 112 Interpersonal Communication

Mathematical Sciences (*C or better required*)

- ____ (4) MA 141 Calculus I
 ____ (4) MA 241 Calculus II
Prerequisite: MA 141 with grade of C- or better
 ____ (4) MA 242 Calculus III
Prerequisite: MA 241 with grade of C- or better
 ____ (3) MA 341 Applied Differential or MA 351 Intro Discrete Math
Prerequisite: MA 224, 225, 231 or 241
 ____ (3) MA 225 Foundations of Advanced Math
Prerequisite: MA 241
 ____ (3) MA 405 Linear Algebra
Prerequisite: MA 241
 ____ (3) MA 421 Intro Probability
 ____ (3) MA 407 Modern Algebra
 ____ (3) MA 408 Foundations of Euclidean Geometry *Take Fall Senior Year*
Prerequisite: MA 225
 ____ (3) MA 425 Math Analysis I
 ____ (3) ST 370 Probability and Statistics for Engineers

Natural Sciences (*C- or better required*)

- ____ (4) CH 101/102
 ____ (4) PY 201 OR PY 205/206
 ____ (4) BIO 181, BIO 183, CH 201/202, PY 202, or PY 208/209

GEP Courses

- ____ (3) _____ Choose a course from the GEP Humanities list
 ____ (3) _____ Choose a course from the GEP Humanities list
 ____ (1) _____ Any 100 level Health & Exercise Studies
 ____ (1) _____ Any HE Course
 ____ (3) _____ Additional Breadth – Choose one GEP Humanities, Social Sciences, or Visual Performing Arts course (*Strongly Recommend ECI 305*)
 ____ (2-3) _____ Interdisc Perspectives

USD and GK may “double-count” for both co-req and another GEP Requirement

- ____ US Diversity Co-Requisite _____
 ____ Global Knowledge Co-Requisite _____

____ Foreign Language Proficiency

Math Electives

- ____ (3) _____
 ____ (3) _____
 ____ (3) _____
 ____ (3) _____

C or better required in all courses below unless otherwise stated

SOPHOMORE YEAR

Fall Semester

Spring Semester

- ____ (3) EDP 304 Education Psychology
 ____ (2) EMS 204 Intro to Mathematics Education *B- or better required*
 ____ (2) ED 204 Intro to 21st Century Teaching

JUNIOR YEAR

Fall Semester

Spring Semester

- ____ (3) ELP 344 School and Society
 ____ (2) ED 311 Classroom Assessment *Prerequisite: ATC*
 ____ (1) ED 312 Classroom Assessment Lab
 ____ (3) ECI 305 Education and Equity

- ____ (3) EMS 480 Teaching Mathematics with Technology (**SPRING ONLY**)
Prerequisite: EMS 204 with a B- or better; MA 131 or 141
 ____ (3) EMS 472 Teaching Math Topics in High School

SENIOR YEAR

Fall Semester

Spring Semester *Prior admission to Professional Semester required*

- ____ (3) EMS 490 School Math from an Adv. Perspective
 ____ (3) EMS 470 Methods & Materials for Teaching Math
Co-requisite: EMS 472
 ____ (3) ECI 416 Teaching Exceptional Students

- ____ (12) EMS 471 Student Teaching (*Spring Only*)

- You need to take EMS 472 & 480 *before* the semester in which you take EMS 470 & 490. (Professional Semester 1)
- A grade below C is not permitted in MA 141, 241, 242, 225, 341 or 351.
- 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.

Completed _____ out of 4.5

PROFESSIONAL GROWTH UNITS (PGU's): must earn 4.5 PGU's by graduation. Register for sessions and track PGU's in SAGE → “Professional Development” tab
 PGU events and details can be found at: <https://ced.ncsu.edu/academics/professional-education/professional-development/>

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

