NC STATE | College of Education

Mathematics Education: Math Ed and Statistics 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)

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 225 Foundations of Advanced Math
    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

Statistics Courses *(C or better required)*
_____ (3) ST 311 Intro Statistics
_____ (3) ST 312 Intro Statistics II
_____ (1) ST 307 Intro Statistics Programming SAS
_____ (1) ST 308 Intro Statistics Programming
_____ (3) ST 421 Intro Math Stat I
_____ (3) ST 422 Intro Math Stat II
_____ (3) ST 445 Introduction to Statistical Computing and Date Mgmt.
_____ (3) ST 432 Intro Survey Sampling
_____ (3) ST 430 Intro to Regression Analysis
_____ (3) ST 431 Intro to Experimental Design
_____ (3) Advanced Statistic Elective *(see degree audit)*

Natural Sciences
_____ (4) CH 101/102 and _____ (4) CH 201/202
    OR
_____ (4) BIO 181 and _____ (4) BIO 183
    OR
_____ (4) PY 205/206 and _____ (4) PY 208/209
    OR
_____ (4) PY 211 and _____ (4) PY 212

_____ (3) _____ GEP Natural Science course

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

C or better required in all courses below unless otherwise stated

SOPHOMORE YEAR	
Fall Semester	**Spring Semester**
_____ (2) EMS 204 Intro to Mathematics Education *B- or better required*	_____ (3) ECI 305 Education and Equity
_____ (2) ED 204 Intro to 21st Century Teaching	

JUNIOR YEAR	
Fall Semester	**Spring Semester**
_____ (3) EDP 304 Education Psychology	_____ (3) EMS 480 Teaching Mathematics with Technology (SPRING ONLY)
_____ (3) ECI 416 Teaching Exceptional Students	*Prerequisite: EMS 204 with a B- or better; MA 131 or 141*
_____ (2) ED 311 Classroom Assessment *Prerequisite: ATC*	_____ (3) ELP 344 School and Society
_____ (1) ED 312 Classroom Assessment Lab	_____ (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	_____ (10) EMS 471 Student Teaching *(Spring Only)*
_____ (3) EMS 470 Methods & Materials for Teaching Math	_____ (2) EMS 495 Senior Seminar *(Spring Only)*
Co-requisite: EMS 472	

*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.
*You need to take EMS 472 & 480 *before* the semester in which you take EMS 470 & 490. (Professional Semester 1)

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