**Mathematics Education: Statistics Specialization (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

Programming Elective  
____ (3) CSC 110, 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  
____ or better required  
____ (3) COM 112 Interpersonal Communication

Mathematical Sciences  
**C or better required**  
____ (4) MA 341 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  
Prerequisite: MA 225  
____ (3) MA 408 Foundations of Euclidean Geometry  
Prerequisite: MA 225  
____ (3) MA 351 Intro Discrete Math (complete in Junior year)  
Prerequisite: MA 224, 225, 231 or 241

*At most one grade below a C is permitted in the mathematics, statistics, and computer science courses.

____ ENG 101     ____ Math courses

SOPHOMORE YEAR

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<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
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| ____ (2) EMS 204 Intro to Mathematics Education  
B- or better required  
____ (2) ED 204 Intro to 21st Century Teaching | ____ (3) EDP 304 Education Psychology  
____ (3) ECI 305 Education and Equity |

JUNIOR YEAR

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<th>Fall Semester</th>
<th>Spring Semester</th>
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| ____ (3) ELP 344 School and Society  
____ (2) ED 311 Classroom Assessment  
Prerequisite: ATC  
____ (1) ED 312 Classroom Assessment Lab  
Prerequisite: ATC | ____ (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

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<th>Fall Semester</th>
<th>Spring Semester</th>
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| ____ (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 | Prior admission to Professional Semester required  
____ (10) EMS 471 Student Teaching (Spring Only)  
____ (2) EMS 495 Senior Seminar (Spring Only) |

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):** 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/](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

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*At most one grade below a C is permitted in the courses satisfying the science requirement.*

<table>
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<tr>
<th>Natural Sciences</th>
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| ____ (4) CH 101/102  
____ (4) CH 201/202  
____ (4) BIO 181  
____ (4) BIO 183  
____ (4) PY 205/206  
____ (4) PY 208/209  
____ (4) PY 211  
____ (4) PY 212 | ____ (3) GEP Natural Science course |

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**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 Health & Exercise 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  

Updated 2/11/2021