## 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
  
  *You need to take EMS 472 & 480 before senior year*

- (3) COM 112 Interpersonal Communication

### Mathematical Sciences (C or better required)

- (4) MA 141 Calculus I
- (4) MA 211 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 242
- (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
- (3) ST 307 Intro Statistics Programming SAS
- (3) ST 308 Intro Statistics
- (3) ST 421 Intro Math Stat I
- (3) ST 422 Intro Math Stat II
- (3) ST 445 Introduction to Statistical Computing and Data 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

### Courses

- ______ 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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**College of Education**

**Updated 2/11/2021**

### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>(2) EMS 204 Intro to Mathematics Education B- or better required</td>
<td>(3) ECI 305 Education and Equity</td>
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<td>(2) ED 204 Intro to 21st Century Teaching</td>
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### JUNIOR YEAR

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<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>(3) EDP 304 Education Psychology</td>
<td>(3) EMS 480 Teaching Mathematics with Technology (SPRING ONLY)</td>
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<tr>
<td>(3) ECI 416 Teaching Exceptional Students</td>
<td>Prerequisite: EMS 204 with a B- or better; MA 131 or 141</td>
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<tr>
<td>(2) ED 311 Classroom Assessment Prerequisite: ATC</td>
<td>(3) ELP 344 School and Society</td>
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<tr>
<td>(1) ED 312 Classroom Assessment Lab</td>
<td>(3) EMS 472 Teaching Math Topics in High School</td>
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### SENIOR YEAR

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<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>(3) EMS 490 School Math from an Adv. Perspective</td>
<td>Prior admission to Professional Semester required</td>
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<tr>
<td>(3) EMS 470 Methods &amp; Materials for Teaching Math</td>
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<tr>
<td>Co-reqisite: EMS 472</td>
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*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/](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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