

## Technology, Engineering, and Design Education – Licensure (6-12)

### Intro to Education

*C or better required*

- \_\_\_\_ (2) ED 100 (Fall Freshmen) OR
- \_\_\_\_ (2) ED 150/151-SAY Village

### Writing and Speaking

- \_\_\_\_ (4) ENG 101 Academic Writing & Research  
*C- or better required*
- \_\_\_\_ (3) COM 110 Public Speaking

### Social Sciences and IP

- \_\_\_\_ (3) PSY 376 Developmental Psych
- \_\_\_\_ (3) STS 302 Contemporary Science, Technology and Human Values

### Mathematical and Natural Sciences

- \_\_\_\_ (3) MA 103  
*C- or better required*
- \_\_\_\_ (3) MA 121, 131 or MA 141  
*C- or better required*
- \_\_\_\_ (4) CH 100 or CH 101/102
- \_\_\_\_ (4) PY 131 OR PY 201 OR PY 205/206 OR PY 211
- \_\_\_\_ (3) BIO 105

### GEP Courses

- \_\_\_\_ (3) \_\_\_\_\_ Course from the GEP Humanities list
- \_\_\_\_ (3) \_\_\_\_\_ Course from the GEP Humanities list
- \_\_\_\_ (3) \_\_\_\_\_ Course from the GEP Social Sciences list (*cannot be PSY*)
- \_\_\_\_ (1) \_\_\_\_\_ Any 100 level Health & Exercise Studies
- \_\_\_\_ (1) \_\_\_\_\_ Any HE Course
- \_\_\_\_ (3) \_\_\_\_\_ Additional Breadth – Humanities, Social Sciences, or Visual Performing Arts course from the GEP list
- \_\_\_\_ (2-3) \_\_\_\_\_ Course from GEP Interdisc Perspectives list (ECI 305 Equity and Education\*USD)

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 \_\_\_\_\_

### TDE Technical Electives (*C- or better required*)

- \_\_\_\_ (3) \_\_\_\_\_
  - \_\_\_\_ (3) \_\_\_\_\_
  - \_\_\_\_ (3) \_\_\_\_\_
  - \_\_\_\_ (3) \_\_\_\_\_
- ~TDE 220 is restricted to Civil Engineering Majors and should not be taken by TDE students for a TDE Elective (Ok if already completed)*

### Free Electives

- \_\_\_\_ (3) \_\_\_\_\_

***C or better required in all courses below***

#### FRESHMEN YEAR

##### Fall Semester

- \_\_\_\_ (3) TDE 110 Materials & Processes Technology
- \_\_\_\_ (3) GC 120 Foundations of Graphics

##### Spring Semester

- \_\_\_\_ (3) TDE 131 Technology through Engineering and Design I  
*(fall or spring) Prerequisite: TDE 110*

#### SOPHOMORE YEAR

##### Fall Semester

- \_\_\_\_ (3) TDE 205 Desktop Publishing or TDE Technical Elective
- \_\_\_\_ (3) GC 250 Architectural Graphic Comm.  
*Prerequisite: GC 120 or TDE 220*
- \_\_\_\_ (2) ED 204 Intro to 21<sup>st</sup> Century Teaching
- \_\_\_\_ (2) TDE 202 Intro to Teaching Tech Ed

##### Spring Semester

- \_\_\_\_ (3) ISE 216 Product Dev. And Prototyping OR D 100 Design Thinking

#### JUNIOR YEAR

##### Fall Semester

- \_\_\_\_ (2) ED 311 Classroom Assessment *Prerequisite: ATC*
- \_\_\_\_ (1) ED 312 Classroom Assessment Lab
- \_\_\_\_ (3) ELP 344 School and Society
- \_\_\_\_ (3) EDP 304 Education Psychology
- \_\_\_\_ (3) TDE 331 Technology through Engineering and Design II (fall or spring)  
*Prerequisite: TDE 131*

##### Spring Semester

- \_\_\_\_ (3) ECI 416 Teaching Exceptional Students

#### SENIOR YEAR

##### Fall Semester

- \_\_\_\_ (4) TDE 456 Curriculum and Methods in Technology Education  
*Prerequisite: TDE 202 and Teacher Education Candidacy*
- \_\_\_\_ (3) TDE 481 Research & Development in Technology Education  
*Prerequisite: TDE 331*

##### Spring Semester *Prior admission to Professional Semester required (Spring only)*

- \_\_\_\_ (3) TDE 452 Lab Planning in Tech Education
- \_\_\_\_ (8) TDE 457 Student Teaching in Technology Education
- \_\_\_\_ (3) TDE 495 Senior Seminar in Technology Education

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 \_\_\_\_ TDE 202/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

#### TDE Technical Elective Course Options

- GC 320 3D Spatial Relations
- GC 350 Applied CAD/D and Geometric Controls
- TDE 205 Desktop Publishing and Imaging Technology
- TDE 351 Ceramics: The Arts and Craft of Clay

- GC 330 Basic Technical Animation
- GC 420 Visual Thinking
- TDE 230 Scientific and Technical Visualization
- TDE 359 Electronics Technology
- TDE 385 Robotics Education

- GC 340 Concepts of Website Design
- GC 450 Advanced Graphics usage with CAD
- TDE 261 Digital Media Education
- TDE 371 Emerging Issues in Technology