

Science Education: Physics Concentration (9-12)

Intro to Education (C or better required)

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

Academic Writing/Communication

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

Mathematics

- ____ (4) MA 141 Calculus I
- ____ (4) MA 241 Calculus II
- ____ (4) MA 242 Calculus III
- ____ (3) MA 341 Applied Differential Equations

Sciences (C or better required)

- ____ (4) BIO 181 Intro Biology: Ecology, Evolution, and Biodiversity
- ____ (4) BIO 183 Intro Biology: Cellular and Molecular
Prerequisite: BIO 181 or CH 101
- ____ (4) CH 101/102 Chemistry
- ____ (4) CH 201/202 Quantitative Chemistry
Prerequisite: CH 101 with C- or better
- ____ (4) MEA 101/MEA 110 Geology
- ____ (4) PY 205/206 or PY 201
Prerequisite: MA 141 with a grade of C- or better or MA 241PL
- ____ (4) PY 208/209 or PY 202
Prerequisite: C- or better in PY 205 and C- or better in MA 241
- ____ (3) PY 123 or PY 124 Astronomy
- ____ (3) ES 200 Climate Change and Sustainability

Physics Electives (8 cr. hrs. total) (see degree audit)

History/Philosophy of Science and Social Science Elective

- ____ (3) HI 321, HI 322, HI 341, PHI 340, or STS 301
- ____ (3) _____ Social Sciences Elective (*see degree audit*)

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 Humanities, Social Sciences, or Visual Performing Arts course from the GEP list

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

JUNIOR YEAR

Fall Semester

Spring Semester

- ____ (3) EMS 373 Instr. Materials in Science
- ____ (3) ELP 344 School and Society
- ____ (3) EMS 375 Methods in Teaching Science *Prerequisite: EMS 205. ED 204*
- ____ (3) ECI 416 Teaching Exceptional Students
- ____ (2) ED 311 Classroom Assessment *Prerequisite: ATC*
- ____ (1) ED 312 Classroom Assessment Lab

SENIOR YEAR

Fall Semester

Spring Semester *Prior admission to Professional Semester required*

- ____ (3) EMS 475 Methods of Teaching Science (Fall Only)
B- or better required
Prerequisite: EMS 375
- ____ (10) EMS 476 Student Teaching in Science (Spring Only)
Prerequisite: EMS 475; and Corequisite: EMS 495
- ____ (2) EMS 495 Senior Seminar in Math/Science Edu (Spring Only)

Double majoring in Physics, choose electives from PY 203, 328, 401, 407, 411, 413, 414.

Not double majoring in Physics, chose electives from PY 125, 126, 133, 203, 328, 341, 401, 402, 407, 411, 412, 413, 414, 415, 463, 499.

***A grade of C (2.0) or better is required for science core content courses, up to two courses with a grade below a C is permitted.**

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 205/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