

Science Education: Chemistry 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

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
 ____ (3) MEA 101
 ____ (4) PY 205/206
Prerequisite: MA 141 with a grade of C- or better or MA 241PL
 ____ (4) PY 208/209
Prerequisite: C- or better in PY 205 and C- or better in MA 241
 ____ (4) CH 221/222 Organic Chemistry I
Prerequisite: CH 101 with C- or better
 ____ (4) CH 223/224 Organic Chemistry II
Prerequisite: CH 221 with a grade of C- or better
 ____ (4) CH 331 Physical Chemistry
Prerequisite: CH 201 and MA 241 and PY 205
 ____ (3) CH 401 Systematic Inorganic Chemistry I
 ____ (4) CH 315/316 Quantitative Analysis
Prerequisite: CH 201 with a grade of C- or better
 ____ (3) ES 200 Climate Change and Sustainability

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 GEP Humanities, Social Sciences, or Visual Performing Arts course

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)

***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

