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
   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
   ____ (3) EMS 373 Instr. Materials in Science
   ____ (3) ELP 344 School and Society

Spring Semester
   ____ (3) 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
   ____ (3) EMS 475 Methods of Teaching Science (Fall Only)
   B- or better required
   Prerequisite: EMS 375

Spring Semester
   ____ (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
   ____ (3) 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)

Prior admission to Professional Semester required

* 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

View your progress in SAGE ➞ “Gateways” tab

GEP Course
Choose one GEP Humanities, Social Sciences, or Visual Performing Arts course

View your progress in SAGE ➞ “Gateways” tab

History/Philosophy of Science and Social Science Elective
Choose one GEP Humanities, Social Sciences, or Visual Performing Arts course

View your progress in SAGE ➞ “Gateways” tab

GEP Course
Choose one GEP Humanities, Social Sciences, or Visual Performing Arts course

View your progress in SAGE ➞ “Gateways” tab