The study of chemistry is broad but fundamental in a young student's education. A chemistry education is necessary because it connects and helps you understand other sciences such as physics, biology, and geology. With a degree to teach chemistry, you can be an important part of their junior high or high school education. In the chemistry education degree program at Wayne State College, you'll get a solid understanding of chemical sciences while also learning how to teach in a classroom setting.

In addition to choosing the chemistry subject endorsement, you will also need to choose a second subject endorsement to receive your B.A. or B.S.

**Possible Careers**
- Chemistry teacher
- Physics teacher
- STEM specialist
- Lab manager
- Science tutor
- Science teacher
- Lab technician
- Chemist
- Chemical engineer
- Forensic scientist

**Types of Employers**
- Middle schools
- High schools
- Colleges and universities
- Education and learning centers
- Research labs
- Energy and utility companies
- Chemical companies
- Cosmetic companies
- Community programs
- Environmental agencies

**Activities / Opportunities**
- Northeast Nebraska Teacher Academy (NENTA)
- Research projects and presentations
- Science bowls and fairs
- Visit science labs and conferences
- Service-Learning
- Study Abroad

**Clubs / Organizations**
- Biology Club
- Health Science Club
- Ironic Bonders (Chemistry) Club
- Kappa Delta Pi
- Science Ed Club
- Student Council for Exceptional Children
- Wayne Student Education Association of Nebraska (WSEAN)
Students must complete the listed coursework below in addition to meeting the Core Academic Tenets (CATs) of the General Studies program. A minimum of 120 credits are needed for graduation. A second subject endorsement is required for Nebraska state certification. Students may need to take summer classes to complete requirements for this endorsement. Check class schedules for summer offerings.

**SAMPLE PROGRAM OF STUDY**

*Every effort is made to ensure this information is current, but please be aware that some content may have changed. There is no substitute for developing a careful course registration plan in consultation with your advisor. For questions about this content, please see your advisor.*

Level 1: Preparing for Teacher Candidacy

**FRESHMAN - 1st semester**
- BIO 110 Biology Concepts* ................................................................. 4
- CHE 106 General Chemistry I* .............................................................. 4
- CNA 100 Principles of Human Communication .................................... 3
- EAS 120 Intro to Geology*** ................................................................. 4
- MAT 130 Pre-Calculus .......................................................................... 5

**FRESHMAN - 2nd semester**
- CHE 107 General Chemistry II* ............................................................ 4
- EDU 150 Professional Ed in a Diverse Society ......................................... 3
- ENG 102 Composition Skills .................................................................. 3
- General Studies ...................................................................................... 4

It is recommended that students satisfactorily complete the Core exam before completion of freshman year.

**SOPHOMORE - 1st semester**
- CHE 314 Organic Chemistry I ............................................................... 4
- EDU 250 Human Development and Cognition ....................................... 3
- EDU 275 Intro to PK-12 Instruction ......................................................... 3
- PHY 201 General Physics I* ................................................................. 3
- PHY 321 General Physics I Lab* ............................................................. 1

**SOPHOMORE - 2nd semester**
- CHE 315 Organic Chemistry II or CHE 326 Biochemistry I .................... 4
- CHE 393 Chem Lab Techniques ............................................................. 1
- EAS 110 Intro to Meteorology** ............................................................. 4
- SPD 302 Inclusive Practices for the General and Special Educator ....... 3
- General Studies ..................................................................................... 3-6

**JUNIOR - 1st semester**
- CHE 305 Analytical Chemistry* ........................................................... 4
- CHE 326 Biochemistry I OR CHE 426 Biochemistry II ....................... 4
- SPD 436 Social, Emotional Development, Behavior Intervention and Secondary Prosocial Classroom Management ................. 3
- General Studies ..................................................................................... 3-6

**JUNIOR - 2nd semester**
- CHE 400 Environmental Chemistry ..................................................... 3
- CHE 456 Physical Chemistry .................................................................. 3
- CHE elective .......................................................................................... 3
- EDU 310 Reading, Writing, and Assessment in Content Areas ............ 2
- General Studies ..................................................................................... 3-6

**SENIOR**
- CHE 456 Physical Chemistry or CHE elective ....................................... 3
- CHE 493 Laboratory Management ....................................................... 1
- EDU 409 Content Area Methods and Assessment (science) ............... 3
- EDU 414 Content Area Clinical Experience ........................................ 1
- General Studies ..................................................................................... 4-8

**Advancement to Level 3: Clinical Practice**
- EDU 456 Clinical Practice and Seminar for Secondary School .......... 12

*Identifies core courses

**EAS 110 Intro to Meteorology is only offered during spring semesters.

**EAS 120 Intro to Geology is only offered during fall semesters. Only one of these courses is required.

All persons seeking Nebraska certification are required to provide proof of a passing score on the Praxis II content test designated for the area(s) of endorsement. For information about the test requirements, please visit the Nebraska Department of Education website at [www.education.ne.gov](http://www.education.ne.gov).

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**chemistry education faculty**

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