

CHEMISTRY

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The Department of Chemistry provides the knowledge, skills and training necessary for chemistry students seeking the B.S. degree with a major in Chemistry and supports undergraduate programs in other disciplines. The Chemistry Department also provides innovative research opportunities for students wishing to explore the fascinating world of chemistry.

The Chemistry Department offers several chemistry based curricula choices leading to a B.S. degree in Chemistry: Chemistry, Chemistry with an emphasis in Pre-Medicine (not a degree in Pre-Medicine), and the dual degree B.S. in Chemistry-M.S. in Materials Science curriculum.

Students wishing to teach chemistry in secondary schools must earn a B.S. degree in the Chemistry curriculum and fulfill the requirements for the Teacher Licensure Endorsement offered by the School of Education. The various curricula prepare graduates to continue their education in graduate or professional schools, or to obtain entry-level positions in industry, government, or education.

The objectives of the Department are:

1. To develop in students an appreciation of the scientific method and its use in the solution of chemical problems.
2. To develop the basic training in chemistry designed to meet the needs of students in pre-professional fields and professional fields.
3. To develop in students those qualities and abilities necessary for success in industry and in advanced degree institutions.
4. To offer sufficient specialized training beyond the generally recognized basic courses to enable a graduate with a bachelor's degree to enter directly into a professional career.

The Chemistry and the Chemistry Pre-Medicine curricula are approved by the American Chemical Society.

Chemistry Tracks

The Chemistry Department offers several chemistry based tracks leading to a B. S. degree in Chemistry: Chemistry with an emphasis in Pre-Medicine (not a degree in Pre-Medicine), and the dual degree B.S. in Chemistry - M.S. in Materials Science curriculum.

All B.S. Chemistry tracks provide you with a strong background in chemical knowledge, analytical and laboratory skills, oral and written communication proficiency, and experiences working independently or in a team.

- [Chemistry \(https://www.nsu.edu/chemistry/bs-chemistry/\)](https://www.nsu.edu/chemistry/bs-chemistry/)
The B.S. Chemistry degree prepares you for a career in industry and graduate school in chemistry or related disciplines.
- [Chemistry Minor Core \(https://www.nsu.edu/chemistry/chemistry-minor/\)](https://www.nsu.edu/chemistry/chemistry-minor/)
The American Chemical Society (ACS) requires that a minor in chemistry consist of a minimum of 20 credit hours and 200 laboratory contact hours in two different areas of chemistry beyond the first year general chemistry.
- [DNIMAS \(https://www.nsu.edu/dnimas/chemistry/\)](https://www.nsu.edu/dnimas/chemistry/) (BS.CHM.DNIMAS)

The Dozoretz National Institute for Mathematics and Applied Sciences (DNIMAS) offers a rigorous and demanding program to to qualifying students. Successful completion of the DNIMAS program results in a Bachelor of Science in Chemistry.

- [Pre-Medicine \(https://www.nsu.edu/chemistry/pre-med/\)](https://www.nsu.edu/chemistry/pre-med/) (BS.CHM.PM)

B.S. Chemistry with an emphasis in Pre-Medicine prepares you for medical, dental, veterinary and other bio-related professional schools. Please be aware, this is not a degree in Pre-Medicine.

- [Pre-Medicine DNIMAS \(https://www.nsu.edu/dnimas/chemistry-pre-med/\)](https://www.nsu.edu/dnimas/chemistry-pre-med/) (B.S.CHM.PM.DNIMAS)
Pre-Med DNIMAS offers a rigorous and demanding B.S. Chemistry/ Pre-Med program to students who qualify.
- [Teacher Licensure \(https://www.nsu.edu/chemistry/teacher-licensure/\)](https://www.nsu.edu/chemistry/teacher-licensure/)

Teacher Licensure combines chemistry and pedagogy, preparing students to work in K-12 education.

- [M.S. Materials Science \(https://www.nsu.edu/chemistry/m-s-materials-science/\)](https://www.nsu.edu/chemistry/m-s-materials-science/) (B.S. Chemistry/M.S. Materials Science)
M.S. Materials Science is a 5 year program that further prepares students to assume positions of leadership in materials-related jobs.

Chemistry Tracks

- Bachelor of Science in Chemistry (<https://catalog.nsu.edu/undergraduate/science-engineering-technology/chemistry/chemistry-bs/>)
- Bachelor of Science in Chemistry - Pre-Medicine Concentration (<https://catalog.nsu.edu/undergraduate/science-engineering-technology/chemistry/chemistry-bs-pre-medicine/>)
- Bachelor of Science in Chemistry - Secondary Education Concentration (<https://catalog.nsu.edu/undergraduate/science-engineering-technology/chemistry/chemistry-bs-secondary-education/>)
- Bachelor of Science in Chemistry and Master of Science in Materials Science - Five-Year Dual Degree (<https://catalog.nsu.edu/undergraduate/science-engineering-technology/chemistry/chemistry-bs-materials-science-ms-five-year-dual-degree/>)
- Minor in Chemistry (<https://catalog.nsu.edu/undergraduate/science-engineering-technology/chemistry/chemistry-minor/>)