

Chemistry

MAJOR @ VITERBO UNIVERSITY



10/10

Overview

Chemistry is a science that explores the structure and properties of the material world. Through the development of new substances and the ability to push the limits of detecting and analyzing materials, chemistry can help solve many of the problems facing society. Chemists play a pivotal role in developing new and valuable products, solving environmental problems, synthesizing new pharmaceuticals to control diseases, and developing exciting new techniques in biochemistry and molecular biology. Modern instrumentation and research opportunities are fully integrated into the curriculum.

Why Viterbo?

The Viterbo University chemistry program:

- features an American Chemical Society degree.
- features a curriculum supporting professional and pre-professional programs.
- is located in state-of-the-art science and laboratory facilities.
- includes opportunities to engage in mentored research with faculty.
- develops skills such as analysis, problem solving, communications, decision making, and working both independently and in a research-team environment.
- includes strong academic advising within the natural sciences division.

Career Options *(some require advanced degrees)*

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|---------------------|------------------------|----------------------------|--------------------|
| • college professor | • optometrist | • physician | • teacher |
| • dentist | • pharmaceutical sales | • research and development | • technical writer |
| • forensic chemist | • pharmacist | | |

Features of the Curriculum

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|---------------------------------|--------------------------------------|
| • environmental chemistry | • instrumental chemistry |
| • general and organic chemistry | • introductory and directed research |

For More Information www.viterbo.edu/chemistry

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over

American Chemical Society (ACS) Accredited Chemistry Major (Bachelor of Arts or Science)

General education requirements

See the general education section of the catalog.

Chemistry requirements

- General Chemistry 1 and 2
- Organic Chemistry 1 and 2
- Analytical Chemistry
- Inorganic Chemistry
- Physical Chemistry 1 and 2 with lab
- Biochemistry with lab
- Chemistry Research Sequence
- Two additional chemistry courses

Support Courses

General Biology 1 and 2, Cellular and Molecular biology, Calculus 1 and 2, University Physics 1 and 2 with lab

Chemistry Major, Bachelor of Science (Bachelor of Arts also offered)

General education requirements

See the general education section of the catalog.

Chemistry requirements

- General Chemistry 1 and 2
- Organic Chemistry 1 and 2
- Survey of Biochemistry or Biochemistry
- Analytical Chemistry
- Inorganic Chemistry
- Physical Chemistry 1 and 2 with Lab
- Chemistry Research Sequence
- Additional Chemistry course

Support Courses

University Physics 1 and 2 with lab, Calculus 1 and 2

Chemistry, Early Adolescence through Adolescence, Education Major (Bachelor of Science)

Students interested in teaching chemistry at the middle/secondary level must complete all of the above requirements for the chemistry major (Bachelor of Science) and the education requirements. Education majors are required to take specific general education courses to satisfy DPI licensure requirements. Students should refer to their degree audit and the course catalog for specifics and for the teacher education policy. Student teaching is completed in the final semester.

Education requirements

- Introduction to Education
- Educational Psychology
- Professional Issues
- Technology Enhanced Education
- Middle/Secondary Methods Content Literacy
- Middle Level Theory and practice
- Science methods course
- Student teaching sequence completed in the final semester

Chemistry major, emphasis in environmental chemistry and biology (Bachelor of Science) also offered.

This is an unofficial course outline. For complete degree requirements, refer to the course catalog.