

Areas of Study

BACHELOR OF ARTS

Art
Art History
Ceramics
Digital Photography
Drawing
Graphic Design
Painting
Photography
Printmaking
Sculpture
Economics
Business
General
English
Literature
Professional Writing
History
International Studies
Political Science
Psychology
Regents Bachelor of Arts
Sociology/Philosophy

BACHELOR OF SCIENCE

Biology
Environmental and Organismal
Biotechnology and Genetics
Pre-Medical and Biomedical Sciences
(Preparation for programs in medicine, dentistry, veterinary medicine, pharmacy, physical therapy, etc.)
Business Administration
Accounting
Finance
Information Systems
Management
Marketing
Chemistry
ACS Certified
General
Pre-Medical
(Preparation for programs in medicine, dentistry, veterinary medicine, pharmacy, physical therapy, etc.)
Computer Science
Communications & Media Studies
Communications Research/Marketing
Government/Social Services
Graphics
Journalism
International
Communications
Photography
Writing

Criminal Justice
Corrections
General Program
Education
Elementary Education K-6
Early Education Pre-K-K
Reading K-6
Multi-Categorical Special Education K-6
5-Adult
Business
English
General Science
Journalism
Mathematics
Reading
Social Studies
Multi-Categorical Special Education 9-Adult
Biology
Chemistry
5-9
English
Mathematics
Social Studies
Pre-K-Adult
Art
French
Health
Music
Physical Education
Spanish
Theater
Health Sciences
Health Care Supervision
Health Promotion/Wellness
Health Studies
Mathematics
Applied
Classical
Recreation
General
Therapeutic
Social Work
Sports Studies

MASTER OF ARTS

Biotechnology
Environmental/ Organismal
Microbial/ Molecular
Media Studies—Digital Media
Production
Media Studies—Media Theory & Criticism

MASTER OF SCIENCE

Biotechnology
Environmental/ Organismal
Microbial/ Molecular
Law Enforcement
Administration

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UNIVERSITY**

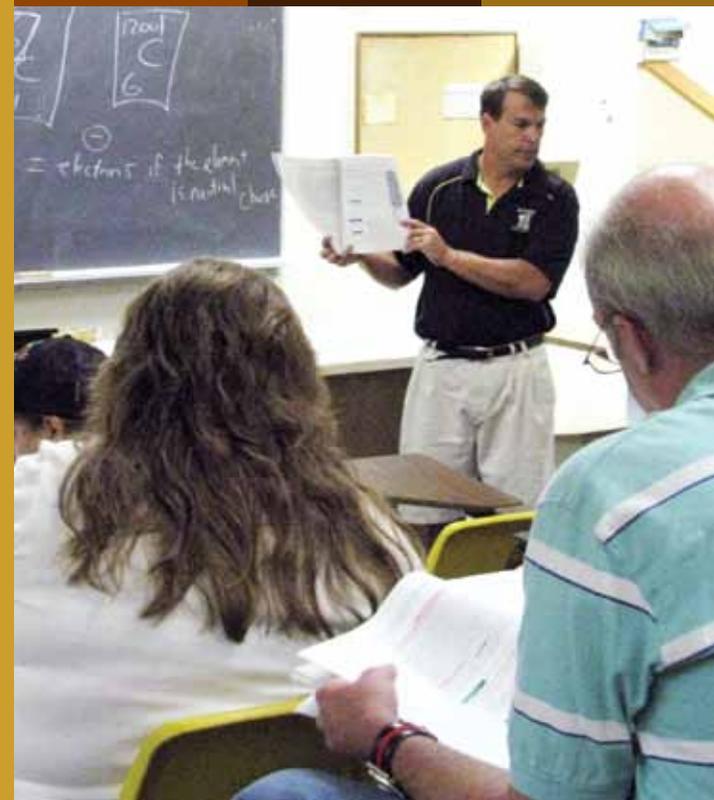
Office of Admissions and
Recruitment Services

106 Ferrell Hall, P.O. Box 1000
Institute, WV 25112-1000

Toll Free: 800 987-2112
Local: 304 766-3221
admissions@wvstateu.edu

www.wvstateu.edu

Chemistry



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Mission of the Program

The Department of Chemistry exists to prepare students for careers in chemistry-related industries, government, health care, or education. Chemistry, being a central science, makes a significant contribution in all scientific discussions. Chemistry is a dynamic science because new discoveries are constantly being made. Knowledge of chemistry is essential in the modern world because it affects every aspect of life.

B.S. Degrees in Chemistry at WVSU

The Chemistry Department offers three options for the Bachelor of Science degree.

- **Option A: American Chemical Society (ACS) Certified**

Designed to prepare students to enter graduate schools to seek advanced degrees such as Ph. D. in chemistry or related sciences.

- **Option B: General Emphasis**

For students choosing to stop at the B.S. degree level. Those who complete this option frequently obtain positions as a technician in industrial, environmental or governmental laboratories, or in chemical sales and services.

- **Option C: Pre-Medical/Pre-Pharmacy Emphasis**

Prepares students to meet all of the requirements for entrance into medical, dental, veterinary, or pharmacy schools. If students should make a change in career choice, this option is also designed for graduating students to enter a graduate school of their choice or find employment in the industry.

During the first two years in any of the chemistry major programs students attend the same courses. During this time they have the opportunity to explore different fields of chemistry before deciding which degree program is appropriate for their interest.

Why Study Chemistry at WVSU?

Class sizes in the Chemistry Department are small. Each of the freshman and sophomore courses typically



have twenty-four students, therefore students get individual attention. Junior- and senior-level courses average less than ten students each. Most chemistry courses also have associated laboratory components. The laboratories are limited to twenty-four students and are generally taught by the same faculty member who teaches the lecture part of the course.

With modern instrumentation, the department prepares students for careers in research, medicine, and teaching. The research that is conducted by the faculty members give students an insight of modern research and an experience that will make them stand out in the future careers.

Learning Outside the Classroom

Chemistry students at WVSU have many ways to become involved in the Chemistry Department. There is an active American Chemical Student Affiliates Chapter that sponsors afternoon lectures by scientists visiting from other schools, as well as professionals presenting their work in medicine and other fields; field trips to tour the laboratories at nearby industrial chemical plants, and picnics provide every student an opportunity to express themselves and fit in. Many students work for the department, preparing the chemicals and equipment for the lab courses and/or providing tutoring services for introductory level courses.

More About the Labs

During the last few years, the faculty members of the Chemistry Department have been very active in obtaining grants for state-of-the-art instrumentation.

- A 300 MHz Fourier-transform Nuclear Magnetic Resonance spectrometer;
- A Fourier-transform Infrared Spectrometer;
- A scanning Ultraviolet-Visible Spectrometer;
- GC-Mass Spectrometer;
- Inductively Coupled Plasma;
- Electro Analytical equipment; and
- Two gas chromatographs.

All students in the Chemistry Department can learn to use any of the instrumentation, and become increasingly independent as they progress through their studies. The students have the possibility to use these high-end instruments in their laboratory courses, as well as in their independent research projects with faculty.

What Can You Do With a Chemistry Degree from WVSU?

After graduation, a bachelor's degree in chemistry allows for many different career paths. Traditionally, about half of the chemistry graduates have continued their education in either graduate school (pursuing either a master's degree or a Ph.D. degree in chemistry or biochemistry), or in professional school (medical, dental, veterinary, or pharmacy).

Recent graduates have attended schools such as Duke University, University of Texas, University of Colorado, University of Kentucky Pharmacy School, and West Virginia University.

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For more information on Chemistry at WVSU, contact Dr. Thomas Guetzloff at 1-304-766-4294 or toll-free at 1-800-987-2112 ext 3100.