

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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**WEST VIRGINIA STATE
UNIVERSITY**

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Mathematics and Computer Science



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Mission of the Program

The purpose of the Department of Mathematics and Computer Science at West Virginia State University is to maintain a robust curriculum that provides its students with the necessary mathematics or computer skills to be productive, the passion to be lifelong learners, and an appreciation of the importance and usefulness of mathematics and computer skills. Implicit in this purpose is the commitment to provide each student with the appropriate analytical, quantitative, and reasoning skills necessary to complete his or her discipline.

Why Study Mathematics?

Mathematics is a rich field that carries with it a tremendous lineage of brilliant thinkers, such as Archimedes, Newton, Euler, Euclid, Gauss, Fermat, and West Virginia native John Nash. The men and women who have pursued and devoted their lives to mathematics have contributed remarkably to our fundamental understanding of both the natural world in which we live and the worlds beyond our physical grasp, whose secrets can only be interpreted through the language of mathematics. A wide variety of fields, such as biology, chemistry, physics, statistics, computer science, engineering, actuarial science, and economics are fundamentally dependent upon mathematics. Indeed, it is impossible to find a field of study today in which mathematics has no application. Thus, by choosing to study mathematics, one is beginning a remarkable journey to understand the fundamental language of a diverse spectrum of disciplines. In Galileo's words, "Mathematics is the language with which God has written the universe."



Why Study Computer Science?

Computer Science is the systematic study of problem solving, algorithms, systems analysis, and software development. It is a dynamic field that develops the principles that guide future technological advances in the computer and software industries. Computer Science is a relatively young discipline that has matured rather quickly due to the rapidly changing technological environment. Computer Science has applications in virtually every major field including banking, business administration and management, engineering, applied and pure mathematics, physics, chemistry, biology, database management, simulation, numerical analysis, statistics, games, robotics, medicine, animation, the automobile and aviation industries, personal communication and security. Indeed, in today's world, it is almost impossible to find a technological field without some application of computer science. Thus, by choosing to study computer science, one is guaranteed to have a very exciting and rewarding career!

About the Program

The Department of Mathematics and Computer Science offers the Bachelor of Science degree in Mathematics and the Bachelor of Science degree in Computer Science. In addition, the department also offers a minor in Mathematics and a minor in Information Systems. The details about the curriculum and requirements can be found in WVSU catalog.

Bachelor of Science in Mathematics

The department offers Bachelor of Science degree in Mathematics with two options.

- **Classical Option:** This is a traditional Mathematics program for students intending to pursue graduate study in mathematics and those seeking a strong foundation in theoretical mathematics.
- **Applied Option:** This program focuses on applications of Mathematics and is primarily aimed to prepare students for possible entry-level jobs with industry, business, or government.

Bachelor of Science in Computer Science

This program will teach students about object-oriented and procedural programming techniques, data structures and database management, operating systems and distributed computing in order to provide them with a fundamental understanding of those concepts of computer science which will enable them to adapt to and function in any current computing environment.

Technology

The Mathematics and Computer Science Department at WVSU is equipped with an open computer lab, a computer classroom with Microsoft operating system, and a computer classroom with Linux operating system.

Our Faculty

The Mathematics Department mission statement is closely aligned with the WVSU mission, in particular as it relates to providing opportunities for employment, research, and further education in mathematics. To achieve our goals, the department is proud to have very dedicated and enthusiastic faculty.

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For more information on Mathematics and Computer Science at West Virginia State University, contact Dr. Sonya Armstrong at 304 766-3267 or toll-free at 800 987-2112 ext 3267.