

Careers

Degrees in Computer Science, Computer Information Systems and Mathematics lead to professional careers which are well compensated. Graduates report a high level of job satisfaction and a wide variety of opportunities.

Western graduates are currently pursuing careers as actuaries, financial analysts, software engineers, system administrators and teachers. Other careers with these degrees include web design, networking database design, game development or positions in the field of finance, statistics, or operations research. Many graduates continue their studies to earn advanced degrees.

The sustained growth of information technology requires the design, maintenance, and development of new computer software systems. Computer software engineers are projected to be one of the fastest growing occupations over the 2002-2012 period. High school Mathematics teachers continue to be in great demand.

Many students in other areas (such as Business, Biology, Chemistry, Law, Economics, and Psychology, to name a few) find that their career opportunities are greatly enhanced if they also have completed a minor, or second major, in Computer Science, Computer Information Systems, Mathematics, or Physics. In all professions, analytic problem solving and technology skills are essential.



Alumni View

“My professors in the math department were phenomenal, going the extra mile to help me understand the material and to succeed where I had struggled. They encouraged me to push

the limits of my academic ability.

I am thankful I attended a student-centered college where I was more than an ID number. I hope my children will be able to have such an amazing college experience.”

*Cassandra Kelly, '03
Secondary Math Teacher*

“The skills I gained from classes, internships and being involved in student organizations are skills I use every day. Working in the Instructional Media Center provided me with valuable work experience and real world knowledge in my field.”

*Gabe Wishnie, '04
Software Engineer
VML*

For more information

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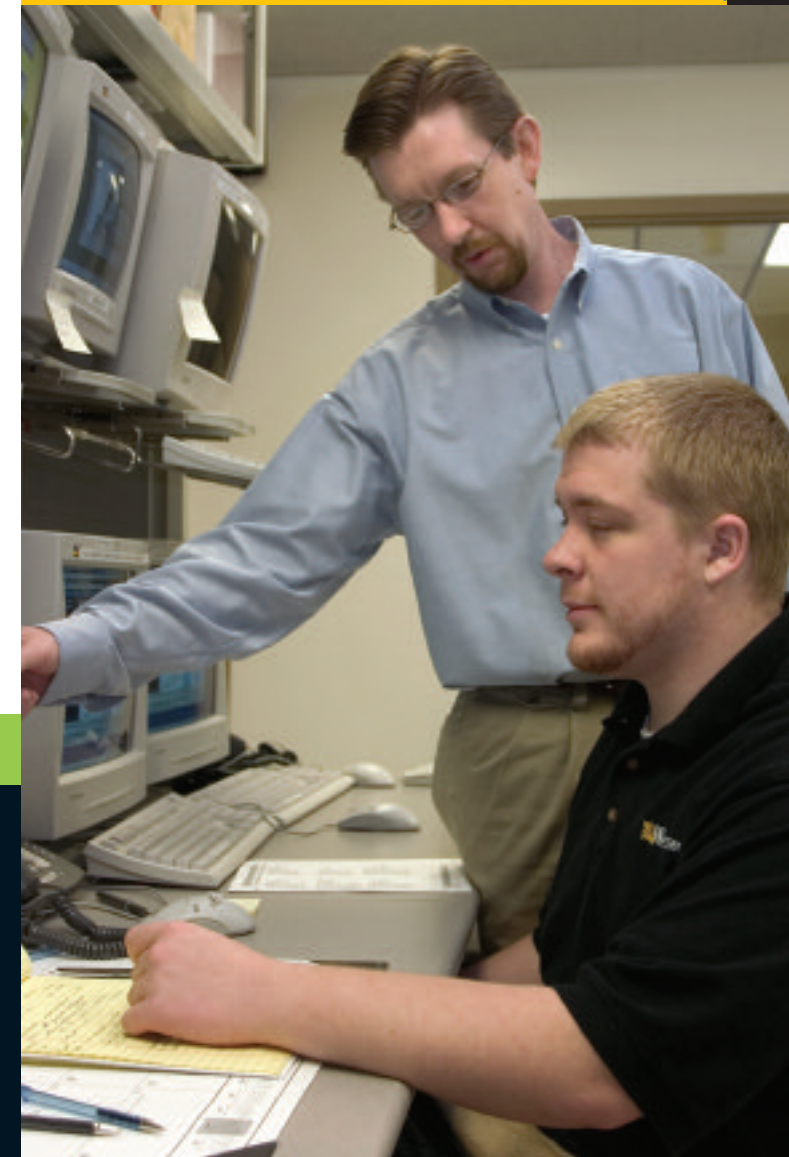


Missouri Western State University
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Western is an equal opportunity institution.

Computer Science, Mathematics & Physics

Missouri Western State University





Students majoring in Mathematics may earn teacher certification if they wish to teach at the high school level. Students may earn minors in Computer Information Systems, Computer Science, Mathematics, and Physics. Physicists explore and identify basic principles governing the structure and behavior of matter, the generation and transfer of energy, and the interaction of matter and energy.

The starting salaries of graduates who study Computer Science, Computer Information Systems, Mathematics and Physics are typically higher than most other graduates.

With small class sizes students can expect individualized attention from their professors. Students have access to modern computer labs, physics labs, and a planetarium.

Research & Internships

Approximately 70% of CSMP graduates participate in an applied learning experience. Students work on campus as teaching assistants, as statistical analysts, or in web development. Off campus, Mathematics majors intern with actuarial firms and Computer Science students intern with area businesses in their IT Departments. Secondary Mathematics Education majors complete practicums in area high schools. Students have many opportunities for



research, and typically present the results at regional and national conferences. Student teams annually compete in regional and national Mathematics and Computing Contests.

Admission

Computer Science or Computer Information Systems: Students must be enrolled in Computing Concepts I or have completed the course with a grade of C or better, or have an ACT composite score of 25 or higher, or an ACT science reasoning score of 28 or higher. In addition, the student must have an overall GPA of at least 2.0.

Mathematics: Students must have completed Calculus with Analytic Geometry I with a grade of C or better, or have an ACT mathematics score of 28 or higher.

Points of Pride

- **The department received a \$294,200 National Science Foundation grant to fund scholarships.**
- **The department received a \$117,000 grant to work with high school teachers to improve high school science teaching.**
- **At a national conference, Western's student team placed 5th out of 90 teams in a web design competition.**
- **The department hosted the conference of the Missouri Section of the Mathematical Association of America in 2005.**

Computer Science, Mathematics & Physics Department

Do you enjoy solving problems and like to analyze situations? Do your family and friends tell you that you are a logical thinker? If your answer is "yes," consider a major in the Department of Computer Science, Mathematics and

Physics (CSMP). The department offers Bachelor of Science degrees in Computer Science, Computer Information Systems, and Mathematics.

Mathematicians use mathematical theory, computational techniques, algorithms, and the latest computer technology to solve economic, scientific, engineering, physics, and business problems. Graduates in Computer Information Systems manage, plan, coordinate, direct research and design the computer-related activities of large and small companies. Computer Scientists solve computer-related problems and apply computer technology to meet the individual needs of an organization.