

## Concentrations

- Industrial Mathematics
- Traditional

## About the Major

Mathematics is the basis of all sciences, and it can be argued that good training in mathematics enhances all intellectual activity in general. Mathematical training develops a flexible mind and an ability to quickly and efficiently learn new things, solve diverse problems that arise in all walks of life, and be able to succeed in fields other than mathematics. **Frequently, the best programmers in computer science are mathematicians. Fields like economics, business, medicine, fine arts, and literature often have people with solid mathematical backgrounds.**

The various concentrations and the opportunity for double majors involving mathematics and another areas, such as computer science, engineering, or data analytics, provide students with the flexibility to choose a course of study that is most interesting to them. As society becomes more technically oriented and science-dependent, there will be a growing need for people who are well trained in the sciences and mathematics. Students with strong mathematical skills and a desire to be in a challenging major will have a clear edge in the job market. First-hand experience with our graduates demonstrates that all our mathematics majors find satisfactory employment and very positive feedback from employers. **With career development, internship, and research opportunities sponsored by multiple grants** such as SOARS, National Aeronautic and Space Administration (NASA), West Virginia IDeA Network of Biomedical Research Excellence (WV INBRE), and National Science Foundation Scholarships in STEM (NSF S-STEM) scholarship programs, **our mathematics majors will be prepared to pursue graduate studies or enter the workforce in a STEM field after graduation.**

## Careers

Employment opportunities are available **within a comfortable distance from Shepherd**. We often have students obtain internship and co-op opportunities with employers such as the U.S. Coast Guard Technology Center, Volvo, IRS, and Hollywood Casino.

The NSF S-STEM Scholarship program in the Department of Computer Sciences, Mathematics, and Engineering (CME) offers scholarships up to \$10,000 per year to eligible CME majors. Award recipients automatically receive S-STEM Club membership and are offered career development, peer mentoring, and other opportunities through S-STEM events such as seminars, field trips, professional conferences, and group meetings.

## Get Involved

Our students are exposed to, and benefit from, events held by multiple clubs in the CME department such as **S-STEM Club**, **Institute of Electrical and Electronic Engineers (IEEE) Club**, and **Robotics Club**.



Annual ShepRobo Fest, hosted by Shepherd's Robotics Club.

## Points of Pride



- We have mathematics and double major graduates **using mathematics work for employers** such as the U.S. Coast Guard, Hagerstown Community College, Jefferson Security Bank, Volvo, and the IRS.
- Students have the opportunity to conduct research projects under the supervision of faculty advisors and to present their research results at **state, regional, and national conferences**. The research projects or trips to conferences are often supported by grants such as West Virginia IDeA Network of Biomedical Research Excellence (WV INBRE), National Aeronautic and Space Administration (NASA), SOARS, and National Science Foundation Scholarships in STEM (NSF S-STEM) programs.
- Some graduates have **pursued graduate studies** in mathematics, engineering, or related fields.

## Contact

For more information about the program, contact:

**Professor Reza Mirdamadi**

Chair of the Department of Computer Science, Mathematics, and Engineering and Associate Professor of Engineering  
Snyder Hall 225

304-876-5368

[rmirdama@shepherd.edu](mailto:rmirdama@shepherd.edu)

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UNIVERSITY

### Office of Admissions

Ikenberry Hall 103

Shepherd University

P.O. Box 5000

301 North King Street

Shepherdstown, WV 25443-5000

304-876-5212

[www.shepherd.edu/admissions](http://www.shepherd.edu/admissions)

