The University of Texas at El Paso is an emerging national research university in the heart of the American Southwest, only a few hundred meters from the U.S-Mexico border. Situated in the high desert and surrounded by mountains on three sides, El Paso enjoys mild days, cool nights and constant sunshine, making it possible to enjoy outdoor activities nearly all year long. El Paso adjoins both the state of New Mexico and the country of Mexico, creating one of the most culturally diverse areas in the nation.

The graduate programs in Computer Science offer courses in a variety of core and applied areas of CS that provide students with a strong foundation to build their individual research and professional programs. In addition to research focused directly on CS, the department engages in research in interdisciplinary areas, such as health, biological, geological, and environmental sciences, education, and engineering. Recognizing that solving many of our complex problems today requires multidisciplinary perspectives, we encourage our students to collaborate with researchers outside the department.

We look forward to answering any questions that you may have about our exciting CS program, our qualified faculty, and all the opportunities that UTEP has to offer.

**GRADUATE PROGRAMS**

Master of Science in Computer Science (MSCS)- The MSCS program provides a broad coverage of both theoretical and applied topics in computer science at the graduate level. In addition to a set of core requirements, students have the flexibility to pursue specific specialties by selecting from a variety of elective courses. Students may optionally choose to complete a thesis as part of their degree, working in close collaboration with a faculty mentor on cutting-edge research. Contact: mscsadvisor@utep.edu

Master of Science in Information Technology (MSIT)- The MSIT program focuses on the application of information and network technology for the enterprise. Students take a combination of technical coursework in computer science and management courses from the business school. The degree is appropriate for students seeking to pursue a career in information technology or management. Contact: msitadvisor@utep.edu

Master of Science in Software Engineering (MSSwE)- The MSSwE program is designed for graduates of Computer Science, Software Engineering, or other related undergraduate programs, as well as for software engineering professionals who want to advance their knowledge of the discipline and enhance their career prospects. Courses are designed to strengthen students’ ability to learn and apply state-of-the-art practices, tools, and techniques. The MSSwE program also offers a Secure Cyber Systems (SCS) Track designed to produce graduates capable of building robust and secure software systems that are part of a complex cyber-physical system. The curriculum in the SCS-Track is based on the needs of entities such as the Department of the Homeland Security (DHS) and the National Cyber Security Division (NSCD), a division of the Office of Cyber Security & Communications. Contact: mssweadvisor@utep.edu

Doctor of Philosophy in Computer Science- The PhD program emphasizes deep technical mastery of computer science through rigorous advanced coursework, as well as training in research methods in computer science. Students work in close collaboration with a faculty mentor in their area of interest to conduct novel research, culminating in a dissertation. Contact: csphdadvisor@utep.edu

Graduate Certificate in Cyber Security- Students obtain this certificate by completing a concentration of security courses in combination with an MS or PhD degree. It is also open to professionals with a BS or graduate degree who are seeking advanced training specifically in cybersecurity. Contact: csctcert advisor@utep.edu

**RELATED PROGRAMS**

Master of Science in Bioinformatics  
http://www.bioinformatics.utep.edu/

Master of Science & Doctor of Philosophy in Computational Science  
http://science.utep.edu/computationalscience/
The students and faculty in the Robust Autonomic Systems Group examine automatic techniques that provide performance scalability and stability in dynamic contexts including partial system failure. Prior efforts have developed techniques for or related to distributing and updating authorization credentials, providing secure and timely communications with biomedical devices, adaptively modulating surveillance camera resolution, monitoring communications within military aircraft, and using virtualization to reduce the overhead of workstation maintenance.

THEORETICAL RESEARCH AND APPLICATIONS IN COMPUTER SCIENCE (TRACS)- The focus of TRACS is on development of theory for useful applications. Areas of interest include data (and image) processing and decision making under uncertainty, constraints, and possible adversity, in particular in relation to online systems and cyber infrastructure. Current applications include the following: environmental research, geosciences, biomedical applications, security, and privacy, among others. Special areas of expertise include computer security, constraints, decision making, and interval uncertainty.

VISION AND LEARNING LAB (VLL)- The VLL group works on research aimed at developing solutions based on Machine Learning to challenging practical problems. Areas of particular interest include transfer learning from unbalanced datasets and intelligent optimization, as well as applications in computer vision, human-computer interaction, natural language processing and scientific data analysis.