UTRGV

UT Rio Grande Valley

The University of Texas
Rio Grande Valley
College of Engineering
& Computer Science

Computer | Science

The University of Texas
Rio Grande Valley
Department of Computer Science

What is Computer Science?

Computer Science the study of computational systems and algorithmic processes, including their principles, their hardware and software designs, their development, their applications, and their impact on society. In Computer Science, you will learn how to develop the critical thinking and problem-solving skills to create new technologies, to develop, test, and deploy intelligent software and hardware systems and applications. By the time you leave, you will have acquired the tools needed to become an innovator and a global leader in computing.

Computer Science Areas

Principal areas of study within Computer Science include:

- Algorithms and theory of computing
- Artificial Intelligence
- Bioinformatics
- Computer Architecture
- Networking and Cyber-Security
- Data Mining/Machine Learning
- Databases and Web Services
- Game Development
- Human Computer Interactions
- Image Processing and Computer Vision
- Software Engineering
- Wireless and Mobile Computing

Why CS at UTRGV

- Strong ABET accredited program that is among the best in the nation
- Individual faculty attention/collaboration with low student-to-faculty ratio
- Immersive and hands-on and project based teaching that emphasizes interactive methods
- Diverse and intellectually challenging community of teachers, scholars and scientists
- Participating in local and national internships (industrial or research projects) throughout all years of college
- Strong research in all areas of CS with internal, local, and external funding from agencies such as NASA, NSF, DoE, DoD, among others

Academics (Computer Science Degrees and Curriculum)

The Computer Science Department offers the following degrees:

- Bachelor of Science in Computer Science (BS)
- Master of Science in Computer Science (MS)
- Master of Science in Information Technology (MS)

Computer Science Clubs

In addition to the University's fraternities and sororities, the CS department has local student chapters of:

- ACM (Association for Computing Machinery)
- IEEE (Institute of Electrical and Electronic Engineers)
- Gaming Club

Computer Science Careers

In today's highly connected world, Computer Scientists are in high demand. Our program provides excellent preparation at the undergraduate level either for entry into the workforce or for graduate work. Graduates find work across a wide range of industries as part of software and IT teams, work for tech start-ups, limited companies, or start their own business.

According to PayScale, the median pay for systems engineers is $78,579.

Graduates are in a strong position to gain employment as computing professionals in a number of fields such as:

- Software development for desktop PCs, tablets, and mobile apps
- System architecture
- Business and system analysis

- Web Design and development
- Database development and administration
- Network and system administration
- Testing and quality assurance
- Project management
- Teaching and research

About our Faculty

Among the best, our faculty are world-renowned teachers in CS with expert knowledge in the fields of HCI, Algorithms, Gaming, Networking

Our faculty are active in research conducting innovative research in state of the art areas from bioinformatics, to networking, to cyber-security, to machine learning, to, and database