Department/School: Computer Science

Vision:

Mission: The Computer Science Department strives for excellence in undergraduate and graduate education to impart the knowledge of computer science and instill a commitment to lifelong learning in students. Students learn to apply their knowledge to solve practical problems in an ethical way. The department provides and encourages the collegial, intellectual academic growth of its faculty.

PROFILE

Majors: B.S. in Computer Science

Graduate Programs: M.S. in Computer Science, M.S. in Information Technology

Students
- Number of Students: 831
- 592 full-time undergraduate, 145 part-time undergraduate, 94 graduate
- Computer Science also supports Computer Engineering (420 students) by teaching half of the courses in that program

Faculty
- Number of Faculty: 22
- Ranks: Professors _9_ Associate Prof. _1_ Assistant Prof. _6_ Lecturers _6_

Campus Program Offering
The BS in Computer Science degree is fully offered face-to-face on both campuses, including sufficient advanced elective courses for degree progress and completion. Specific advanced elective courses differ between campuses based on faculty expertise. A limited number of online elective offerings are being explored.

The MS degrees in Computer Science and Information Technology are fully offered at this time in Edinburg only. A limited number of online elective offerings are being explored.

- _85%_ of program/courses are available at both campuses (face-to-face, online, hybrid, or ITV)
- _100%_ of program/courses in the first 2 years of study per major map are available at both campuses (face-to-face, online, hybrid, ITV)
- _70%_ of program/courses in the upper division are available at both campuses (face-to-face, online, hybrid, ITV)
- _0%_ of graduate program/courses are available at both campuses (face-to-face, online, hybrid, ITV)

Stats & Highlights:
- The B.S. in Computer Science (BSCS) is accredited by the Computing Accreditation Commission of ABET, http://www.abet.org
- The BSCS is one of two UTRGV CECS Bachelor’s degrees currently offered in full in Brownsville, with 8 full-time CS faculty on the Brownsville campus
- According to the U.S. Bureau of Labor Statistics, employment in Computer and Information Technology Occupations is projected to grow 12% (much faster than average), with median salaries from $70,000-$118,000. Software Developers in particular are projected to grow 21% with a median salary of $105,000.
- The number of Bachelor’s degrees awarded in Computer Science at UTRGV has doubled from 2015-16 to 2018-19
- Research labs in AI, Machine Learning, Data Science, Bioinformatics, Social Robotics, Cybersecurity, and Theoretical Computer Science
- Numerous undergraduate research opportunities, with a strong history of student co-authored publications
- Starting in 2019, the Edinburg side of our program is housed in the brand-new Interdisciplinary Engineering and Academic Building
Success Stories/"Bragging":
- Current and recently graduated students have received internship and job offers from: Amazon Web Services, American Airlines, American Express, Boeing, Doctor’s Hospital at Renaissance, Facebook, Google, H-E-B, IBM, Intel, Invoice Cloud, Johns Hopkins Applied Physics Laboratory, JPMorgan Chase, LendKey, Lightning Step Technologies, Lockheed Martin, Microsoft, Mission Economic Development Corporation, OmniSci, PSJA ICSD, Region One, Sysco, Target, USAA, USC ICT, Wal Mart, Wells Fargo and more!
- Dr. Robert Schweller and Dr. Tim Wylie were awarded a $500,000 grant from the National Science Foundation for their proposal, “Unifying Self-Assembly Through Tile Automata”.
- Dr. Dongchul Kim was awarded a $330,000 grant from the US Department of Agriculture for his proposal “Applying Computer Vision Technologies To Honey Bee Health and Surveillance: Building Capacity in Agricultural Engineering at a HSI”.
- New programs in development in cybersecurity, user experience and user interface design, and interdisciplinary computational science
- International Conference on Data Intelligence and Security, hosted by UTRGV at South Padre Island
- New Google Developer Student Club, one of 125 started in the United States

Traditions:
- Annual Computer Science Student Research Day
- Annual Hack Research competition
- Annual High School Programming Contest
- Presentation of capstone projects, required for every graduating student
- CECS National Engineering Week – Innovation Challenge, Student Poster Competition, Career Day, Girl’s Day
- Outstanding Student and Faculty Awards
- CECS medal ceremony
- Our active student clubs hold socials, outreaches, workshops, service projects, study days, hack-a-thons, and more: ACM, ACM-W, Hack&&Make, DSC
- Open study lab and tutoring available on both campuses

Mantra/Slogan: