

THE UNIVERSITY OF TEXAS AT EL PASO

Department of Computer Science



OVERVIEW

UTEP has achieved an enrollment milestone of 25,078 students—a record that surely validates UTEP’s success in offering affordable access to higher education excellence for residents of a historically undereducated region. *Hispanic Business Magazine* consistently ranks graduate programs in both Business Administration and Engineering in the Top 10 in the nation. UTEP ranks first nationally in the number of Hispanic graduates in Mathematics and Statistics, Engineering, and Education, and third among all U.S. colleges and universities in the total number of bachelor’s degrees awarded to Hispanics in all academic disciplines. With \$90 million in total annual research expenditures, UTEP ranks third among University of Texas System academic institutions in federal research spending.

The Computer Science Department has established strengths in secure cyber systems at both the undergraduate and graduate levels. The department is seeking approval of a concentration in data analytics.

STUDENT ORGANIZATIONS

DEPARTMENTAL

Association of Computing Machinery (ACM)
ACM-Women (ACM-W)
Cyber Security Club

STUDENT ORGANIZATIONS

INTERDISCIPLINARY

Engineering Student Leadership Council (ESLC)
Mexican American Engineers & Scientists / Society of Hispanic Professional Engineers (MAES/SHPE)
National Society of Black Engineers (NSBE)
Society of Women Engineers (SWE)

TUITION

For 15 credit hours for Texas resident	\$3,956.50
For 15 credit hours for Non-Resident	\$10,092.00

STUDENT BODY PROFILE – SPRING 2018

Enrollment

Undergraduate	798
Master’s	72
Doctoral	33

Ethnicity (UG)

Black, Non Hispanic	2.25%
Hispanic	80.70%
White, Non-Hispanic	7.64%
Asian/Hawaiian	1.62%
Two or more races	1.12%
Mexican National	6.39%
Other International	0.25%

Gender (UG)

Female	18.17%
Male	81.83%

DEGREES CONFERRED 2016-17

Bachelor of Science (B.S.)	63
Master of Science (M.S.)	31
Computer Science	14
Information Technology	4
Software Engineering	13
Ph.D.	1

FACULTY

13	
Tenured	9
Tenured-Track	4

2017 SPONSORED PROGRAMS EXPENDITURES

\$3,815,807.00

For more information, visit us at <http://www.cs.utep.edu>



The CS department is creating a data analytics concentration in the UG program and a Master's degree in data analytics.



UTEP students accepting a cash award for placing in the Cyber Security Hackathon (CAHSI competition) at the HENAAC conference.

2016-2017 COMPUTER SCIENCE HIGHLIGHTS

- The **Brookings Institute** ranks UTEP **#1** for **public, research-generating universities** with the highest level of **social mobility**.
- UTEP is designated a **National Security Agency (NSA) Academic Center of Excellence (ACE) in Cyber Operations** (1 of 19 in the U.S.); it is also designated an NSA ACE in Cyber Defense
- UTEP CS is **one of nineteen** departments that is leading the nation in **revolutionizing engineering and computer science education** by focusing on a model of change for creating inclusive environments that prepare students for professional practice in CS.
- UTEP is a **BRAID institution**. The BRAID (Building, Recruiting, And Inclusion for Diversity) initiative, is co-led by the Anita Borg Institute and Harvey Mudd College and supports UTEP's diversity efforts, including sending 15 female students to the Grace Hopper Celebration.
- UTEP is preparing a diverse workforce with expertise in developing secure cyber systems as an **NSF/DHS CyberCorps® university**.
- The U.S. Army Research Laboratory (ARL) has established a **satellite research center** at UTEP associated with the **ARL South** initiative housed at UT Austin.
- Led by ARL scientist Dr. Acosta and CS Associate Professor Dr. Salamah, UTEP commemorated the opening of a **new cybersecurity center** with its first **community cybersecurity workshop** for professionals (15 organizations represented) held on August 10, 2017.
- Dr. A. Gates received funding from the Inclusion across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science (INCLUDES) program. This **collective impact project** builds upon the **Computing Alliance of Hispanic Serving Institutions (CAHSI)**, which was founded to increase the number of Hispanic students pursuing computing degrees.
- Dr. Kiekintveld received a **Multidisciplinary University Research Initiative (MURI) grant** for the project, "Realizing Cyber Inception: Towards a Science of Personalized Deception for Cyber Defense." The partners are USC, CMU, ASU, UNC Chapel Hill, and NCSU.
- Dr. Villanueva Rosales (CS) in collaboration with Dr. Cheu (Civil Engineering) received an **NSF IRES grant** for a US-Mexico interdisciplinary research collaboration for smart cities. The Universidad de Guadalajara, an IEEE Affiliated Smart City, is the partner institution.
- Dr. Freudenthal **patented a process for augmenting audio reality** that facilitates on-pitch singing and may have therapeutic applications related to ASD and Parkinson's.
- Drs. Ward and Fuentes are funded by DARPA for "**Dialog-Activity Spotting Using Prosodic-Similarity Models.**"
- Dr. Hossain is funded by the U.S. Army Corps of Engineers for his work on "Algorithms for **Spatiotemporal Storyboarding** Using Public Data."