DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Computing devices are all around us and computer algorithms support almost every aspect of our daily activities, decisions, and transactions. Our majors are at the center of these exciting activities; in envisioning new forms of services, in applications to address existing or emerging needs, in formulation and evaluation of algorithms to build the necessary computer and networking systems, and in development of the necessary software infrastructures to deploy the resulting solutions. In this, they rely on skills learned in our degree programs; skills that include algorithm design and analysis, programming languages, computer system design, artificial intelligence and machine learning, graphics, human-computer interaction, and many more. Our graduates are found in a wide range of industries, both public and private, reflecting the ubiquity of computing in society.

The Department of Computer Science and Engineering prepares our students to become computing experts who are equipped to address the many and varying challenges that they will encounter in their careers. We offer three degree programs, which are designed to address a variety of student goals and industry demands.

Mission
The mission of the Department of Computer Science is to develop the human and intellectual resources needed to meet the future technological challenges in the field of computing. This includes developing computer scientists and computer engineers for positions of leadership in industry, government, and academia.

BS in Computer Science
The curriculum in Computer Science is designed to prepare students to enter the rapidly expanding computer field. Curricula and courses are based upon recommendations by the Institute of Electrical and Electronic Engineering Computer Society and the Association for Computing Machinery. The Computer Science program is accredited by the Computing Accreditation Commission of ABET, www.abet.org.

BS in Computer Engineering
The Computer Engineering curricula provide a balanced view of hardware, software, hardware-software trade-offs, analysis, design, and implementation techniques. It is a dynamic and broadly interdisciplinary field that continues to experience rapid growth that impacts every area of human endeavor. The Computer Engineering program is accredited by the Engineering Accreditation Commission of ABET, www.abet.org.

BA in Computing
The Bachelor of Arts in Computing allows students to couple foundational skills in computing, both theoretical and practical, with a sound knowledge of an intersecting area of interest.

Faculty
Ahmed, Sarker T, Instructional Assistant Professor
Computer Science & Engineering
PHD, Texas A&M University, 2016

Akleman, Ergun, Professor
Computer Science & Engineering
PHD, Georgia Institute of Technology, 1992

Amato, Nancy M, Professor
Computer Science & Engineering
PHD, University of Illinois, 1995

Bettati, Riccardo, Professor
Computer Science & Engineering
PHD, University of Illinois, 1994

Caverlee, James B, Professor
Computer Science & Engineering
PHD, Georgia Institute of Technology, 2007

Chai, Jinxiang, Associate Professor
Computer Science & Engineering
PHD, Carnegie Mellon University, 2006

Chaspari, Theodora, Assistant Professor
Computer Science & Engineering
PHD, University of Southern California, 2017

Chen, Jianer, Professor
Computer Science & Engineering
PHD, Columbia University, 1987

Choe, Yoonsuck, Professor
Computer Science & Engineering
PHD, University of Texas, 2001

Da Silva, Dilma M, Professor
Computer Science & Engineering
PHD, Georgia Institute of Technology, 1997

Daugherity, Walter C, Senior Lecturer
Computer Science & Engineering
PHD, Harvard University, 1977

Davis, Timothy A, Professor
Computer Science & Engineering
PHD, University of Illinois - Urbana Champaign, 1989

Dewitte, Paula S, Associate Professor of the Practice
Computer Science & Engineering
JD, St. Mary’s University School of Law, 2008
PHD, Texas A&M University, 1989

Dongarra, Jack J, Visiting Professor
Computer Science & Engineering
PHD, Queen Mary College, Univ. of London, 1987

Furuta, Richard K, Professor
Computer Science & Engineering
PHD, University of Washington, 1986

Garay, Juan A, Professor
Computer Science & Engineering
PHD, The Pennsylvania State University, 1989
Goldberg, Daniel W, Assistant Professor  
Computer Science & Engineering  
PHD, University of Southern California, 2010

Gooch, Bruce S, Associate Professor  
Computer Science & Engineering  
PHD, University of Utah, 2003

Gratz, Paul V, Associate Professor  
Computer Science & Engineering  
PHD, University of Texas, 2008

Gu, Guofei, Professor  
Computer Science & Engineering  
PHD, Georgia Institute of Technology, 2008

Guerra Nakamura, Fabiola, Senior Lecturer  
Computer Science & Engineering  
PHD, Federal University of Minas Gerais, 2010

Gutierrez-Osuna, Ricardo, Professor  
Computer Science & Engineering  
PHD, North Carolina State University, 1998

Hammond, Tracy A, Professor  
Computer Science & Engineering  
PHD, Massachusetts Inst of Technology, 2007

Houngninou, David Kebo, Instructional Assistant Professor  
Computer Science & Engineering  
PHD, Southern Methodist University, 2017

Hu, Jiang, Professor  
Computer Science & Engineering  
PHD, University of Minnesota, 2001

Hu, Xia, Associate Professor  
Computer Science & Engineering  
PHD, Arizona State University, 2015

Huang, Ruihong, Assistant Professor  
Computer Science & Engineering  
PHD, University of Utah, 2014

Huang, Shaoming, Assistant Professor  
Computer Science & Engineering  
PHD, Hong Kong University of Science and Technology, 2012

Ioerger, Thomas R, Professor  
Computer Science & Engineering  
PHD, University of Illinois, 1996

Jiang, Anxiao, Professor  
Computer Science & Engineering  
PHD, California Institute of Technology, 2004

Jimenez, Daniel A, Professor  
Computer Science & Engineering  
PHD, University of Texas at Austin, 2002

Kerne, Andrew, Professor  
Computer Science & Engineering  
PHD, New York University, 2001

Keyser, John C, Professor  
Computer Science & Engineering  
PHD, University of North Carolina at Chapel Hill, 2000

Kim, Eun J, Associate Professor  
Computer Science & Engineering  
PHD, Pennsylvania State University, 2003

Klappenecker, Andreas, Professor  
Computer Science & Engineering  
PHD, Universitat Karlsruhe, 1998

Kum, Hye Chung, Associate Professor  
Computer Science & Engineering  
PHD, University of North Carolina - Chapel Hill, 2004

Lee, Hyunyoung, Senior Lecturer  
Computer Science & Engineering  
PHD, Texas A&M University, 2001

Leyk, Teresa S, Senior Lecturer  
Computer Science & Engineering  
PHD, Australian National University, 1998

Lightfoot, Robert H, Lecturer  
Computer Science & Engineering  
MS, Southern Methodist University, 1995

Liu, Jyh C, Professor  
Computer Science & Engineering  
PHD, University of Michigan - Ann Arbor, 1989

Loguinov, Dmitri, Professor  
Computer Science & Engineering  
PHD, City University of New York, 2002

Lupoli, Shawn V, Instructional Assistant Professor  
Computer Science & Engineering  
MS, Towson University, 2004

Mahapatra, Rabinarayan, Professor  
Computer Science & Engineering  
PHD, Indian Institute of Technology, Kharagpur, 1992

Moore, John Michael, Instructional Assistant Professor  
Computer Science & Engineering  
PHD, Texas A&M University, 2007

Mortazavi, Jack B, Assistant Professor  
Computer Science & Engineering  
PHD, University of California - Los Angeles, 2014

Murphy, Robin R, Professor  
Computer Science & Engineering  
PHD, Georgia Institute of Technology, 1992

Nakamura, Eduardo F, Visiting Associate Professor  
Computer Science & Engineering  
PHD, Federal University of Minas Gerais, 2007

Narayanan, Krishna R, Professor  
Computer Science & Engineering  
PHD, Georgia Institute of Technology, 1998
Quek, Francis K, Professor
Computer Science & Engineering
PHD, University of Michigan, 1990

Quinn, Michael D, Associate Professor of the Practice
Computer Science & Engineering
MS, University of Southern California at Los Angeles, 1978

Ragsdale, Daniel J, Professor of the Practice
Computer Science & Engineering
PHD, Texas A&M University, 2001

Rauchwerger, Lawrence, Professor
Computer Science & Engineering
PHD, University of Illinois, 1995

Ritche, Philip C, Instructional Assistant Professor
Computer Science & Engineering
PHD, Purdue University, 2015

Rojas, Joseph M, Professor
Computer Science & Engineering
PHD, University of California, Berkeley, 1995

Sarin, Vivek, Associate Professor
Computer Science & Engineering
PHD, University of Illinois, 1997

Schaefer, Scott D, Professor
Computer Science & Engineering
PHD, Rice University, 2006

Sharon, Guni, Assistant Professor
Computer Science & Engineering
PHD, Ben-Gurion University, 2015

Shell, Dylan A, Associate Professor
Computer Science & Engineering
PHD, University of Southern California, 2008

Shipman III, Frank M, Professor
Computer Science & Engineering
PHD, University of Colorado, 1993

Song, Dezhen, Professor
Computer Science & Engineering
PHD, University of California, Berkeley, 2004

Song, Fang, Assistant Professor
Computer Science & Engineering
PHD, Penn State, 2013

Stoleru, Radu, Professor
Computer Science & Engineering
PHD, University of Virginia, 2007

Sueda, Shinjiro, Assistant Professor
Computer Science & Engineering
PHD, University of British Columbia, 2010

Sze, Sing H, Associate Professor
Computer Science & Engineering
PHD, University of Southern California, 2000

Tyagi, Aakash, Professor of the Practice
Computer Science & Engineering
PHD, University of Louisiana, 1993

Walker, Duncan M, Professor
Computer Science & Engineering
PHD, Carnegie Mellon University, 1986

Wang, Zhangyang, Assistant Professor
Computer Science & Engineering
PHD, University of Illinois at Urbana-Champaign, 2016

Ward, Ronald G, Senior Lecturer
Computer Science & Engineering
PHD, Texas A&M University, 1973

Welch, Jennifer L, Professor
Computer Science & Engineering
PHD, Massachusetts Institute of Technology, 1988

Yum, Ki H, Senior Lecturer
Computer Science & Engineering
PHD, The Pennsylvania State University, 2002

Majors

- Bachelor of Arts in Computing (http://catalog.tamu.edu/undergraduate/engineering/computer-science/computing-ba/)
- Bachelor of Science in Computer Engineering, Computer Science Track (http://catalog.tamu.edu/undergraduate/engineering/computer-science/computer-engineering-bs-computer-science-track/)
- Bachelor of Science in Computer Science (http://catalog.tamu.edu/undergraduate/engineering/computer-science/bs/)

Minors

- Computer Science Minor (http://catalog.tamu.edu/undergraduate/engineering/computer-science/minor/)
- Game Design and Development Minor (http://catalog.tamu.edu/undergraduate/engineering/computer-science/game-design-development-minor/)