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

Akleman, Ergun, Professor Computer Science & Engineering PHD, Georgia Institute of Technology, 1992 Andersen, Flemming, Adjunct Professor of Practice Computer Science & Engineering PHD, Technical University of Denmark, 1995

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

Botacin, Marcus, Visiting Assistant Professor Computer Science & Engineering PHD, Federal University of Paraná (UFPR), 2021

Budimlic, Zoran, Instructional Associate Professor Computer Science & Engineering PHD, Rice University, 2001

Carlisle, Martin, Professor of the Practice Computer Science & Engineering PHD, Princeton University, 1993

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

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, The University of Texas at Austin, 2001

Crawford, Victoria, Assistant Professor Computer Science & Engineering PHD, University of Florida, 2022

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

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

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

Duffield, Nicholas G, Professor Computer Science & Engineering PHD, Queen Mary College, Univ. of London, 1987

Duysak, Alpaslan, Instructional Associate Professor Computer Science & Engineering PHD, Bournemouth University, 2004

Furuta, Richard K, Professor Emeritus Computer Science & Engineering PHD, University of Washington, 1986 Garay, Juan A, Professor Computer Science & Engineering

PHD, The Pennsylvania State University, 1989

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Hamilton, John, Professor Computer Science & Engineering PHD, Texas A&M University, 1996

Hammond, Tracy A, Professor Computer Science & Engineering

PHD, Massachusetts Inst of Technology, 2007

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PHD, Southern Methodist University, 2017

Hu, Jiang, Professor

Computer Science & Engineering PHD, University of Minnesota, 2001

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

Huang, Shaoming, Associate Professor Computer Science & Engineering

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

Jafari, Roozbeh, Professor Computer Science & Engineering

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Ji, Shuiwang, Professor

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Jiang, Anxiao, Professor

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Jimenez, Daniel A, Professor Computer Science & Engineering

PHD, The 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

Khademi Kalantari, Nima, Assistant Professor

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PHD, University of California Santa Barbara, 2015

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

Kim, Jeeeun, Assistant Professor Computer Science & Engineering

PHD, University of Colorado - Boulder, 2019

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

Krishnamurthy, Vinayak, Associate Professor

Computer Science & Engineering PHD, Purdue University, 2015

Kuhnle, Alan, Assistant Professor Computer Science & Engineering PHD, University of Florida, 2018

Kum, Hye Chung, Professor Computer Science & Engineering

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Leyk, Teresa S, Instructional Professor Computer Science & Engineering PHD, Australian National University, 1998

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

McGuire, Timothy, Instructional Professor Computer Science & Engineering PHD, Texas A&M University, 1991

McNamara, Ann, Associate Professor Computer Science & Engineering PHD, University of Bristol, UK, 2000

Moore, John Michael, Instructional Assistant Professor Computer Science & Engineering PHD, Texas A&M University, 2013 PHD, Texas A&M University, 2007

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

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

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Qian, Xiaoning, Professor Computer Science & Engineering PHD, Yale University, 2005

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Saxena, Nitesh, Professor Computer Science & Engineering PHD, University of California - Irvine, 2006

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

Shakkottai, Srinivas, Professor Computer Science & Engineering PHD, University of Illinois, 2007

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

Shen, Yang, Associate Professor Computer Science & Engineering PHD, Boston University, 2008

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

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

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

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Tsai, Chia-Che, Assistant Professor Computer Science & Engineering PHD, Stony Brook University, 2017

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

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Yang, Tianbao, Associate Professor Computer Science & Engineering PHD, Michigan State University, 2012

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

Zhang, Yupeng, Assistant Professor Computer Science & Engineering PHD, University of Maryland - College Park, 2018

Majors

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