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
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PHD, University of Illinois, 1994

Botacin, Marcus, Visiting Assistant Professor
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PHD, Federal University of Paraná (UFPR), 2021

Budimlic, Zoran, Instructional Associate Professor
Computer Science & Engineering
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Caverlee, James B, Professor
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Chaspari, Theodora, Assistant Professor
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Chen, Jianer, Professor
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JD, St. Mary's University School of Law, 2008
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Duffield, Nicholas G, Professor
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Ioerger, Thomas R, Professor
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Jafari, Roozbeh, Professor
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Jimenez, Daniel A, Professor
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Kerne, Andrew, Professor
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Keyser, John C, Professor
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PHD, City University of New York, 2002

Lupoli, Shawn V, Instructional Assistant Professor
Computer Science & Engineering
MS, Towson University, 2004
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Department</th>
<th>Degree Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mahapatra, Rabinarayan</td>
<td>Professor</td>
<td>Computer Science &amp; Engineering</td>
<td>PHD, Indian Institute of Technology, Kharagpur, 1992</td>
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<td>McGuire, Timothy</td>
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<td>PHD, Texas A&amp;M University, 1991</td>
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<td>Computer Science &amp; Engineering</td>
<td>PHD, University of Bristol, UK, 2000</td>
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</tbody>
</table>
| 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                                           |
| Muzahid, Abdullah     | Assistant Professor       | Computer Science & Engineering      | PHD, University of Illinois at Urbana-Champaign, 2012                               |
| Narayanan, Krishna R  | Professor                 | Computer Science & Engineering      | PHD, Georgia Institute of Technology, 1998                                           |
| Nguyen, Khanh         | Assistant Professor       | Computer Science & Engineering      | PHD, University of California, Los Angeles, 2019                                    |
| O’Kane, Jason         | Professor                 | Computer Science & Engineering      | PHD, University of Illinois, Urbana-Champaign, 2007                                 |
| Pearce, Olga          | Adjunct Associate Professor of Practice | Computer Science & Engineering | PHD, Texas A&M University, 2014                                                     |
| Pearce, Roger         | Adjunct Associate Professor of Practice | Computer Science & Engineering | PHD, Texas A&M University, 2013                                                     |
| Qian, Xiaoning        | Professor                 | Computer Science & Engineering      | PHD, Yale University, 2005                                                           |
| Quinn, Michael D      | Associate Professor of the Practice | Computer Science & Engineering | MS, University of Southern California at Los Angeles, 1978                          |
| Ritchey, Philip C     | Instructional Associate Professor | Computer Science & Engineering | PHD, Purdue University, 2015                                                       |
| Rojas, Joseph         | Professor                 | Computer Science & Engineering      | PHD, University of California at Berkeley, 1995                                     |
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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                                                   |
| 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                                         |
| 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                                     |
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**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-design-development-minor/)