

# COMPUTER SCIENCE

The discipline of computer science pertains to the study and design of computer systems, hardware and software, computing techniques, and underlying theory. Our program provides a student with a broad technical background in computer science. It is a flexible program providing breadth and permitting a student to develop strengths in selected areas within computer science, as well as in related areas such as electrical engineering, mathematics, or business, depending on a student's interests. Technical electives available in the Computer Science major span courses in a broad spectrum of areas such as Networks, Computer Security, Artificial Intelligence, and Database Systems.

## Laptop Requirement

A laptop is required hardware for Computer Science and Computer Engineering students beginning in the sophomore year, and for all graduate students. The specific requirements can be found here (<https://uwm.edu/engineering/laptop-requirement-cs-and-ce/>).

## Mission Statement

The Department of Electrical Engineering and Computer Science is committed to outstanding undergraduate and graduate education, distinguished research programs, and strong service to our students, professional and technical societies, and the community.

## Programs

- Applied Computing, BS (<https://catalog.uwm.edu/engineering-applied-science/computer-science/applied-computing-bs/>)

- Applied Math and Computer Science, BS (College of Engineering and Applied Science, Department of Computer Science) (<https://catalog.uwm.edu/engineering-applied-science/computer-science/applied-math-computer-science-bs/>)
- Artificial Intelligence and Machine Learning, Graduate Certificate (Department of Computer Science) (<https://catalog.uwm.edu/engineering-applied-science/computer-science/artificial-intelligence-machine-learning-graduate-certificate/>)
- Computer Science, BA (<https://catalog.uwm.edu/engineering-applied-science/computer-science/computer-science-ba/>)
- Computer Science, BS (<https://catalog.uwm.edu/engineering-applied-science/computer-science/computer-science-bs/>)
- Computer Science, Minor (<https://catalog.uwm.edu/engineering-applied-science/computer-science/computer-science-minor/>)
- Computer Science, MS (<https://catalog.uwm.edu/engineering-applied-science/computer-science/computer-science-ms/>)
- Computer Science, PhD (<https://catalog.uwm.edu/engineering-applied-science/computer-science/computer-science-phd/>)
- Data Science, BS (College of Engineering and Applied Science, Department of Computer Science) (<https://catalog.uwm.edu/engineering-applied-science/computer-science/data-science-bs/>)
- Web Development, Undergraduate Certificate (<https://catalog.uwm.edu/engineering-applied-science/computer-science/web-development-undergraduate-certificate/>)

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Brian Armstrong	Professor, Co-Chair	PhD	Stanford University	✓	
John T. Boyland	Professor, Co-Chair	PhD	University of California, Berkeley	✓	
Christine T. Cheng	Associate Professor	PhD	Johns Hopkins University	✓	
Robert Cuzner	Associate Professor	PhD	University of Wisconsin-Madison	✓	
George I. Davida	Professor	PhD			✓
Adrian Dumitrescu	Professor	PhD	Rutgers, The State University of New Jersey		✓
Mukul Goyal	Associate Professor	PhD	Ohio State University	✓	
George W. Hanson	Professor	PhD	Michigan State University		✓
Seyed Hosseini	Professor	PhD	University of Iowa		✓
Yi Hu	Associate Professor	PhD	University of Texas at Dallas	✓	
Charles E. Kahn Jr.	Adjunct Professor	MD	University of Illinois at Chicago		
Nikolai A. Kouklin	Professor	PhD	University of Nebraska-Lincoln	✓	
Robert J. Krueger	Professor	PhD			✓
Chiu T. Law	Associate Professor	PhD	Purdue University	✓	
Leonard P. Levine	Professor	PhD			✓
Amol D. Mali	Associate Professor	PhD	Arizona State University	✓	
David McClanahan	Faculty Associate	MSEE	University of Wisconsin-Milwaukee		✓
Susan McRoy	Professor	PhD	University of Toronto	✓	
Devendra K. Misra	Professor	PhD	Michigan State University	✓	
Ethan V. Munson	Professor, Associate Dean	PhD	University of California, Berkeley	✓	
Ali Reza	Professor	PhD			✓

Jayson Rock	Senior Lecturer	MS	University of Wisconsin-Milwaukee		
Robert Sorenson	Senior Lecturer	MS	Marquette University		
George R. Steber	Associate Professor	PhD			✓
Ichiro Suzuki	Professor	PhD, DE	Osaka University, Japan		✓
K. Vairavan	Professor	PhD			✓
Lingfeng Wang	Associate Professor	PhD	Texas A&M University	✓	
Weizong Wang	Associate Professor	PhD	University of Maryland-College Park	✓	
Guangwu Xu	Associate Professor	PhD	University at Buffalo, SUNY		✓
David C. Yu	Professor	PhD	University of Oklahoma		✓
Zeyun Yu	Associate Professor	PhD	The Ohio State University	✓	
Jun Zhang	Professor	PhD	Rensselaer Polytechnic Institute	✓	
Tian Zhao	Associate Professor	PhD	Purdue University	✓	