College of Engineering & Applied Science

COMPUTER SCIENCE

Just the Facts

Number of Students
1,600 undergraduate / 350 graduate

Number of Faculty
85 full-time, 100% doctorate

Undergraduate Degrees
Bachelor of Science in Computer Science
Bachelor of Science in Engineering
(Civil, Computer, Electrical, Industrial, Materials and Mechanical)

Minors
Computer Science, Electrical Engineering, Industrial Engineering, Materials Engineering, Mechanical Engineering, Structural Engineering

Graduate Degrees
Master of Science in Engineering
Master of Science in Computer Science
Master of Science in Engineering
Master of Urban Planning
Doctor of Philosophy in Engineering
Doctor of Philosophy in Medical Informatics
Graduate Certificate Programs

Academic Advising

Many students find that determining schedules, registering for courses, and making important academic decisions can be daunting. This is why the College of Engineering & Applied Science (CEAS) offers personal, individualized advising to all students. Academic advisors are available to support students throughout their entire stay at CEAS, acting as a liaison to other university departments and working collaboratively with faculty advisors.

Cooperative Education/Internships

The Career Services Office within CEAS provides a link between education and the real world. Because we know that relevant work experience in combination with good academics is crucial in gaining employment, we are dedicated to helping all CEAS students secure work experience before graduating. The Cooperative Education and Internship programs offer students an opportunity to gain professional employment prior to graduation. Students are able to apply the skills they are learning under the supervision and guidance of a professional engineer or computer scientist. The Career Services Office also offers a variety of services in addition to co-op/internships and job placement, including resume reviews, interview coaching, information on market trends, and how to negotiate salaries.

Undergraduate Research

To enhance the undergraduate experience, all undergraduates have the opportunity to participate in world-class research under the supervision of faculty members.

Study Abroad

CEAS collaborates with the Overseas Programs and Partnerships Office to offer unique study abroad experiences. In one such experience, CEAS students have the opportunity to study renewable energies in Germany during the winter interim session. The program includes lectures by Kassel University professors, site visits to factories and companies; and visits to a wind park and a biogas power plant. Through field trips and hands-on projects, engineering students are offered an incredible, international learning experience.

For more information about the College of Engineering & Applied Science at the University of Wisconsin-Milwaukee, please contact us.

E-mail: ceas-adv@UWM.edu Website: www.uwm.edu/CEAS Phone: (414) 229-4667

UNIVERSITY of WISCONSIN
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College of Engineering & Applied Science

COMPUTER SCIENCE

You may be surprised by how many aspects of your life are touched by **computer science**. Concerned with the design and construction of computer hardware and software, computer scientists are on the cutting edge of technology. Biologists are using computer science to discover secrets of life encoded in DNA. Without computer science you wouldn't be able to download music off the internet. Cell phones, traffic signals, and all modern-day special effects in movies are made possible through computer science. It's also contributing to your health…doctors use computer science to see precise images inside the body, to store medical records, and to increase the overall quality of medical care.

Sample Course Plan

Semester 1
Calculus I
Introductory Computer Programming
General Education Requirement
General Education Requirement
Elective

Semester 2
Calculus II
Intermediate Computer Programming
Digital Logic
Professional Seminar
Computer Organization & Assembly Language

Semester 3
Applied Math Elective
Data Structures Programming
Discrete Information Structures
Introduction to Software Engineering
General Education Requirement

Semester 4
Applied Math Elective
General Education Requirement
Programming Language Concepts
Computer Architecture
Elective

Semester 5
Natural Science
Theory of Computation
Data Structures & Algorithms
Computer Networks

Semester 6
Natural Science
Operating Systmes
Technical Elective
Technical Elective
System Programming

Semester 7
Database Systems
Computer Science Capstone
Natural Science
Technical Elective

Semester 8
General Education Requirement
Technical Elective
Technical Elective
Elective

This is only a sample course plan and will vary for each student. Plans can be influenced by many factors including: the need for pre-requisite coursework, inclusion of related work experience through co-op and/or internship, and appropriate pace for individual students. Each student will develop personal course plans with their advisor.

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