CYBER-PHYSICAL SYSTEMS

Department of Cyber-Physical Systems

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Overview

The Department of Cyber-Physical Systems offers the **Master of Science Degree in Computer Science** to provide graduate students a balanced practical and theoretical approach to the study of software and hardware that includes the latest advances in this industry. The Department has established a competitive research and training base by enhancing its computer science academic program, research faculty, and infrastructure.

The Departmental research thrusts include Information Security, Data Mining, High Performance Computing, Wireless Communication, and Image Processing. These projects, primarily funded through grants and contracts, are conducted by faculty members leading teams of graduate and undergraduate students. Student participation in research and development activities is an integral part of the student-training process. All students are required to complete research/design projects, thus emphasizing the importance and interrelationship among research, design and education.

The Department's academic and research activities are strengthened via several major funded initiatives. These projects provide opportunities for student participation in research/design efforts and related laboratory work. The department has linkages with several research institutions, government research laboratories and industries to facilitate student summer internships, job placement, and doctoral studies.

Mission

The mission of the Department of Computer and Information Science is to educate diverse students in an intellectually challenging program of study focused towards the analysis, design, and implementation of software systems by providing an advanced and rigorous curriculum with integrated laboratory-based and practical experiences that make students globally competitive for employment with government and industry.

Vision

The vision of the Department of Computer and Information Science is to become nationally recognized in educating bachelors to terminal degree level students in the Computer Sciences with knowledge, skills and practical training needed to understand and address inter- and multi-disciplinary problems of a national and global scale.

- Computer Science, M.S. (http://catalog.cau.edu/graduate/programs-study/arts-sciences/natural-sciences-mathematics/cyber-physical-systems/computer-science-ms/)
- Cybersecurity, Ph.D. (http://catalog.cau.edu/graduate/programs-study/arts-sciences/natural-sciences-mathematics/cyber-physical-systems/cybersecurity-phd/)