AREAS OF SPECIALIZATION
The Division of Computer Science and Engineering offers both a Master of Science and PhD in Computer Science. Our graduate program is designed to be flexible in order to provide our students with opportunities to take courses and do research in both core and applied/interdisciplinary areas. There are currently about 100 students, roughly evenly split between the MS and PhD programs. Additionally, our graduate program is in the top 30 nationwide, according to the latest National Research Council ranking.

DEGREES OFFERED

**MS in Computer Science**
The MS in Computer Science program is an innovative and versatile curriculum, offering a wide range of opportunities to students. Combined with various concentrations and options, it aims to give students the education, training, and research skills and experiences they need to be successful in the many computer-oriented jobs that exist today. It can also serve as a stepping stone toward pursuing a doctoral degree in computer science. The curriculum covers core topics, such as theory of computation, algorithms, operating systems, programming languages, networks, cyber security, computer graphics, databases and analytics, and software development. In addition, the student may choose a systems-related specialization area and application of the techniques from these core areas.

**PhD in Computer Science**
The PhD in Computer Science program offers talented students the opportunity to prepare for research careers in universities or industrial laboratories. There is a strong and continuing demand for computer scientists to work at the frontiers of knowledge in both theoretical and applied specialties. Our curriculum covers several areas related to theoretical foundations, systems and architecture, cyber security, databases and data analytics, software, computational science, and digital media.

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FACULTY RESEARCH AREAS

Gerald Baumgartner
gb@csc.lsu.edu — design and implementation of domain-specific languages, compiler optimization, desktop grids, object-oriented languages, software engineering tools, embedded systems programming tools

Konstantin Busch
busch@csc.lsu.edu — distributed algorithms and data structures, communication algorithms, algorithmic game theory

Doris Carver
carver@csc.lsu.edu — requirement traceability, model-driven software development, reverse engineering, testing

Feng Chen
fchen@csc.lsu.edu — operating systems, storage systems (flash SSDs, persistent memory, cloud storage), data management in cloud and large-scale distributed storage systems

Jianhua Chen
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Bijaya Karki
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Sukhamay Kundu
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Rahul Shah
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Mingxuan Sun
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Qingyang Wang
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Jinwe Ye
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Jian Zhang
zhang@csc.lsu.edu — machine learning and applications