Department of Computer Science

The department’s offerings include theoretical-based computer science courses as well as a solid foundation in algorithm design and implementation. Major “core” courses in computer science reflect a broad emphasis and a great variety of electives to prepare graduates for one of the fastest growing careers in the world. Faculty specializations in the Georgia Southern Computer Science department include augmented/virtual reality; broadband networking; cybersecurity; data and software systems design; database and knowledge systems; mobile computing; optical networking; parallel and distributed computing; and software engineering.

Program Educational Objective (3-5 years after graduation)

- have a diverse group of graduates take on successful leadership roles in Computer Science related fields;
- have graduates remain current in their field through the pursuit of lifelong learning;
- have graduates work effectively with others to make positive contributions to their employers and to society.

Outcomes

Upon graduation, students with a BS majoring in Computer Science will have:

- an ability to apply knowledge of computing and mathematics appropriate to the discipline;
- an ability to analyze a problem, and identify and define the computing requirements appropriate to its solution;
- an ability to design, implement and evaluate a computer-based system, process, component, or program to meet desired needs;
- an ability to function effectively on teams to accomplish a common goal;
- an understanding of professional, ethical, legal, security, and social issues and responsibilities;
- an ability to communicate effectively with a range of audiences;
- an ability to analyze the local and global impact of computing on individuals, organizations, and society;
- recognition of the need for, and an ability to engage in, continuing professional development;
- an ability to use current techniques, skills, and tools necessary for computing practices;
- an ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the trade-offs involved in design choices;
- an ability to apply design and development principles in the construction of software systems of varying complexity.

The CS program is accredited by the Computing Accreditation Commission of ABET, www.abet.org.

Programs

Majors

- Computer Science B.S. (http://catalog.georgiasouthern.edu/undergraduate/allen-paulson-engineering-computing/computer-science/computer-science-bs)