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.


Programs

Majors

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