

## Graduate Program

The objective of the program leading to the Master of Science in Computer Science is designed to foster independent study and research. Graduates of the program may aspire to pursue a doctoral degree, teach computer science, or pursue careers in business, industry, and government.

## Assistantships

Limited numbers of assistantships are available on a competitive basis. For more information, contact the Department of Computer Science at (225) 771.2060.

## Admission Requirements

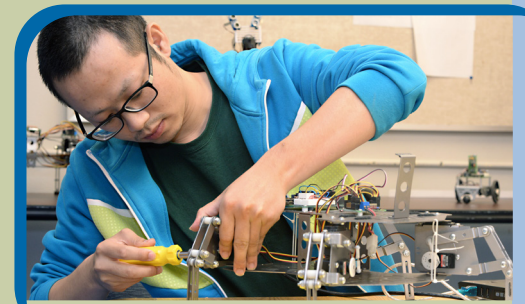
Applicants must meet all Southern University Graduate School entrance requirements. Admission is on a competitive basis with GRE (Graduate Record Examination) scores and undergraduate records. A preferred minimum grade point average of 2.7 on all undergraduate work, or 3.0 on all graduate work completed, based on a 4.0 scale, and recommendations used to determine those students who are accepted. For international students, a minimum score of 77 (123 on computer based test) on the Test of English as a Foreign Language (TOEFL), as evidence of proficiency in English and an Affidavit of Support (U.S. Department of Justice form I-134). If student fail to meet the minimum TOEFL require, students who score between 69-77 will be accepted but must take English course during the first semester.

For further information, please contact:

**Department of Computer Science**  
**Southern University and A&M College**

P.O. Box 9221  
Baton Rouge, Louisiana 70813

Phone: (225) 771-2060  
Fax: (225) 771-4223  
Email: [cmpchair@subr.edu](mailto:cmpchair@subr.edu)  
Website: <http://www.cmps.subr.edu>



# Southern University and A&M College • College of Engineering and Computer Science

## Computer Science

### Why Computer Science?

The Computer Science Department seeks to improve the scientific literacy of all students. The Department provides a liberal education in the sciences through course offerings to majors and non-majors.

The Department of Computer Science promotes academic excellence through counseling and scholarly activities that encompass courses of study that provide the foundation necessary for graduate work, professional training and advancement, and a successful career as a scientist. Courses of study enable future teachers to provide basic instruction in areas of science and other educational programs. Graduates of the college receive an education that prepares them to apply theoretical and practical solutions to societal problems.

The department seeks to instill in students an appreciation for science as an area of human experience used in exploring and understanding the universe; research and cooperative work experience for students form an integral part of its educational programs.



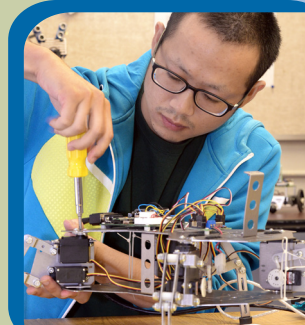
### Mission

To produce quality graduates who are capable of entering into careers in Computer Science possessing fundamental knowledge and experiences necessary to support efforts of upward mobility. Our educational programs prepare our students to be competitive in graduate work, and to contribute to society.

### Program Objectives

The Educational Objectives of the Computer Science Program are to produce graduates who:

- Are thoroughly trained in methods of analysis, including the mathematical and computational skills appropriate for problem solving.
- Have developed the skills pertinent to the design of computing systems, including the ability to formulate problems, to think creatively, to synthesize information, to work collaboratively, and to communicate effectively.
- Are able to use current experimental and data analysis techniques for computer science applications.
- Are prepared for successful computer science careers by continuing to learn and adapt to changing technologies, procedures and concepts in computer science.
- Have an understanding of their professional and ethical responsibilities.
- Will demonstrate that they possess the skills and knowledge necessary to function effectively in roles of leadership and service to the public, in the communities where they live and work.



### Scholarship Opportunities

The Computer Science Scholarship program represents a truly meaningful contribution to

the future. The program was established by the Department of Computer Science with the assistance of business and industry. Due to budget constraints, a limited number of scholarships are awarded each year.

This Scholarship requires the student to be enrolled as a full-time student in Computer Science and maintain a GPA of at least 3.2 in each academic year/semester. Students will also be engaged in a scholarly (or technically challenging) activity under the supervision of a Computer Science faculty member. Any withdrawal from computer science courses or failure to maintain full-time status during the semester will constitute an automatic loss of scholarship. Scholar must follow specified plan of study as outlined in the University Catalog/ Department Balance Sheet.

### Fields of Study

There are two options to choose from in our undergraduate program, Scientific Option and Information Systems Option. Our BS program and its options are accredited by the Computing Accreditation Commission of ABET, <http://www.abet.org>.

**Scientific Option:** designed to provide the student with a firm foundation for graduate study, scientific research, and careers in scientific computing.

**Information Systems Option:** designed to provide firm foundations for graduate study, research, and job careers in commercial settings.