



FOR INFORMATION ACQUIRING CERTIFICATE IN

Information Assurance — Committee on National Security Systems (CNS), National Security Agency (NSA), Oracle Certification
Contact Southern University's Department of Computer Science

Phone: 225.771.2060

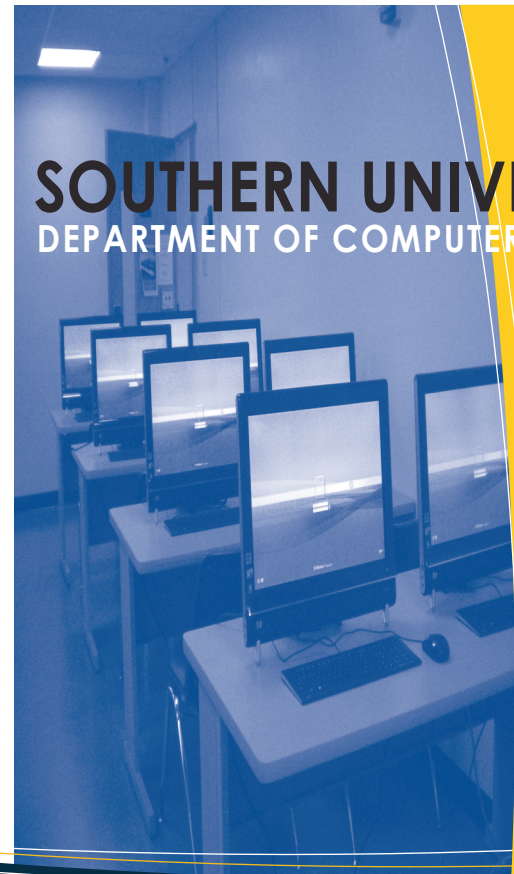
LONI

The Department is currently supporting the projects of the Louisiana Optical Network Initiative, or LONI, in Computational Materials Science and Computational Biomedical research. Our projects are funded by NASA, DOE, NSF, NIH, and Louisiana BoR. We have robotics, computational biomedical, and high performance computing (HPC) labs to facilitate our students and faculty to perform the state-of-the-art computational science study.



SOUTHERN UNIVERSITY

DEPARTMENT OF COMPUTER SCIENCE



FACULTY

Dr. Ebrahim Khosravi, Chair

Mr. Alvin L. Allen, Jr.

Mrs. Deanna Allen-Roquemore

Dr. Marilyn Antoine

Dr. Shuju Bai

Dr. Nigel Gwee

Mr. Alonzo Johnson

Dr. Osman Kandara

Dr. Mathieu Kourouma

Dr. Douglas Moreman

Dr. Abdus Salam

Dr. Sudhir K. Trivedi

Dr. Rachel Vincent-Finley

Dr. Shizhong Yang

Our Department's program incorporates several Fortune 500 companies including, but not limited to:

- Boeing
- IBM
- Texas Instrument
- Raytheon
- Century Link



FINANCIAL ASSISTANCE

The department offers a small number of scholarships over a period of eight(8) semesters to students who meet the requirements.

FOR ADDITIONAL INFORMATION CONTACT
SOUTHERN UNIVERSITY'S
DEPARTMENT OF COMPUTER SCIENCE

BACHELOR OF SCIENCE IN COMPUTER SCIENCE UNDERGRADUATE PROGRAM

P.O BOX 9221

BATON ROUGE, LA 70813

T.T. ALLAIN HALL

PHONE: 225.771.2060

FAX: 225.771.4223

WWW.CMPS.SUBR.EDU



THE DEPARTMENT

The Department of Computer Science was established as a distinct instructional unit in the College of Sciences at Southern University in 1968. The department offers two programs, BS and MS. The undergraduate program offers students the CS-Scientific and CS-Information Systems options, both leading to a Bachelor of Science. The program is accredited by the Computing Accreditation Commission (CAC) of the Accreditation Board of Engineering and Technology (ABET). The department also offers a minor in Computer Science. In addition, we offer courses that are certified under the Information Assurance Courseware Evaluation Program (<http://nsa.gov/ia>) as meeting the committee on National Security Systems (CNSS) Training Standards 4011 for Information System Security Professionals and 4013 for Systems Administrators (<http://www.cnss.gov>).

MISSION

The Department's mission is to produce quality graduates who are capable of entering into careers in Computer Science possessing fundamental knowledge and experience necessary to support efforts of upward mobility. Our educational programs equip our students to be competitive in graduate work as well as to contribute to society.

ADMISSIONS REQUIREMENTS

Prior to acceptance into the Department, the student must be accepted into the College of Sciences. In order to be admitted into the undergraduate program, a student must have completed CMPS 190, CMPS 191 and MATH 140 or MATH 264 with a minimum grade of "C" or better.

DEGREE/GRADUATION REQUIREMENTS

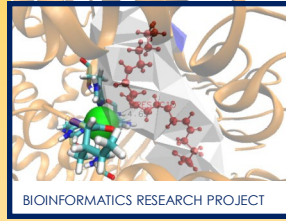
- **Scientific Option** requires 120 semester hours, of which 54 hours must be in Computer Science, 12 hours in Natural science, and 14 hours in Mathematics.
- **Information Systems Option** requires a total of 120 semester hours, of which 42 hours of courses must be in Computer Science, 12 hours in Business, 12 hours in Natural Science and 14 hours in Mathematics.

Students have a choice of several electives, which can be chosen from a group of courses that emphasize the student's professional growth.

In addition to the information above, the Department of Computer Science also offers a concentration in Electronic Business and Supply Chain Management. For more information contact the department.

RESEARCH

The faculty engages in research and professional development that allows them to remain current in their fields and to provide technological leadership to the university, the community and the region. The department makes conscious efforts to evaluate and incorporate new areas and technologies into its programs. The department is currently funded by several government grants through research such as LONI, Robotics and XML.

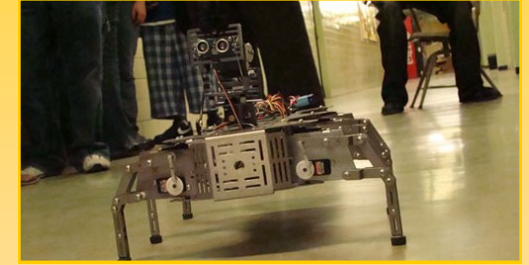
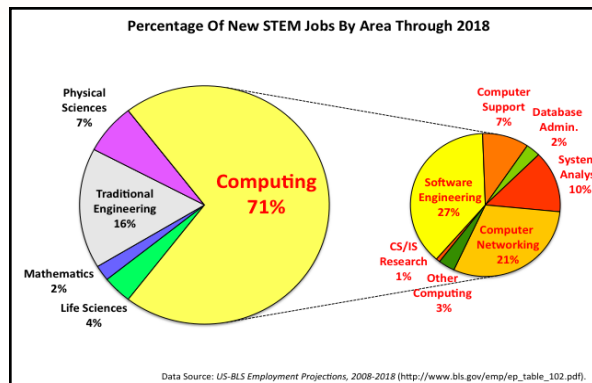


FACILITIES

- Computer Literacy Lab
- Teleconferencing/Distance Learning Lab
- Architecture and Simulation Lab
- Sun (Solaris) Workstation Lab (UNIX Lab)
- Computer Programming Lab
- Graduate Student/Network Simulation Lab
- Server Network Monitoring Lab
- Robotics Lab
- Smart (Multimedia) Laboratory
- Wireless Network Ready Classrooms

WHAT CAN YOU DO WITH A BACHELOR'S DEGREE IN COMPUTER SCIENCE?

The market for Computer Science professionals is still the fastest-growing area in the job market today. Information Technology jobs are



SELECTED COURSES

- CMPS 190 Algorithm Development and Programming I
- CMPS 200 Discrete Structures
- CMPS 201 Data Structures
- CMPS 302 Computer Organization
- CMPS 315 Information Systems
- CMPS 334 Digital Data Networks
- CMPS 350 Web Based Programming
- CMPS 360 Scientific Computing
- CMPS 365 Computers, Information and Security
- CMPS 370 Object-Oriented Programming
- CMPS 375 Information Security
- CMPS 378 Software Engineering
- CMPS 380 Software Process Quality
- CMPS 382 Statistical Methods
- CMPS 385 Video Game Programming
- CMPS 387 Object-Oriented Design Patterns
- CMPS 400 Operating Systems
- CMPS 402 Computer Architecture
- CMPS 407 Numerical Methods
- CMPS 412 Theory of Computing
- CMPS 415 System Analysis and Design
- CMPS 420 Database Management Systems
- CMPS 432 Distributed Processing
- CMPS 433 Telecommunications
- CMPS 434 Graph Theory and Networks
- CMPS 435 Introduction to Neural Networks
- CMPS 450 Senior Seminar
- CMPS 470 Computer Graphics
- CMPS 480 Introduction to Artificial Intelligence

For more course offerings refer to the department's website (www.cmps.subr.edu).