Career Opportunities

Positions in the computer industry include job opportunities in the areas of hardware manufacturing, software development, information systems design and maintenance, and computer training and education. Specific job titles include, but are not limited to:

- Computer engineer
- Software engineer
- Technical writer
- Application programmer
- Systems programmer
- Software analyst
- Network engineer
- Database analyst

Certification Preparation

Many of the courses in the Computer and Information Sciences Program are designed to prepare students to pass Microsoft and A+ Certification examinations.

Grants and Scholarships

Research assistant scholarships, office assistant stipends, and book grants are available to students who exhibit financial need and academic credibility.

Miles College

CIS Program
5500 Myron Massey Boulevard
Birmingham, AL 35208
Phone (205) 929-1603
Fax (205) 929-1550
www.miles.edu

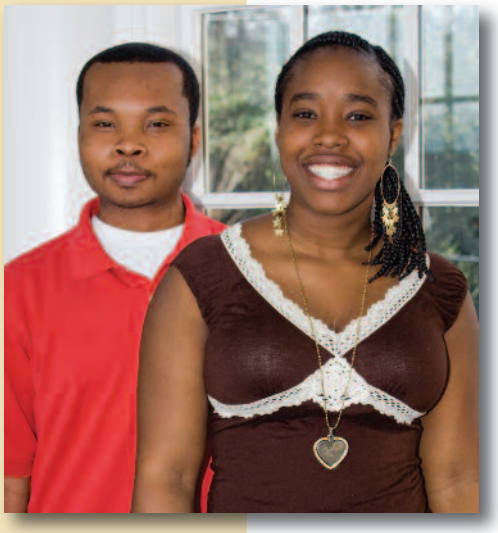
NCATE
The Standard of Excellence in Teacher Preparation

Miles College is accredited to award Bachelors degrees by the Commission on Colleges of the Southern Association of Colleges and Schools: 1866 Southern Lane, Decatur, GA 30033-4097, Phone: 404-679-4501

Bachelor of Science

Computer and Information Sciences Program

Miles College



Division of Natural Sciences and Mathematics

WHY STUDY CIS AT MILES COLLEGE?

The Division of Natural Sciences and Mathematics at Miles College offers the Bachelor of Science Degree in Computer and Information Sciences (CIS). The curriculum is designed to prepare students for careers in various areas of computer technology.

This program incorporates company-sponsored mentoring initiatives for women and minorities with the purpose of hiring students who have been trained to:

1. Demonstrate understanding of the field of computing, both as an academic discipline and as a profession within the context of our society and the world.
2. Apply knowledge of computing to specific problems and produce solutions.
3. Demonstrate an appreciation for the ethical and societal issues associated with the computing field.
4. Demonstrate the capability for staying current and for achieving ongoing self-education in the computing discipline.
5. Use current programming languages, software development tools, software systems, and commonplace computing platforms.

Areas of Concentration

The model CIS program offered at Miles College, as supported by the Association for Computing Machinery and the Data Processing Management Association, consists of the following areas of concentration:

- Computer Science - prepares the student for a career as a programmer analyst, systems analyst, or information center specialist. Emphasis is placed on programming languages, data structures, distributed data processing, software engineering, database management, and information systems organization.
- Computer and Information Sciences – emphasizes testing, implementing, and training for computer applications and developing procedures and practices to optimize the use of such applications in commercial, government, and educational organizations.
- Network Information Technology – focuses on training professionals to use computer-based tools including network systems to deliver information to individuals in diverse situations. This concentration prepares learners to design, implement, configure and maintain complex networking solutions; to understand and design databases for information systems; and to effectively prepare computer hardware, software, and courseware designs that will improve the performance of people in various types of organizations.
- Information Security – trains learners to develop, deploy, and maintain information security for corporate, governmental, or academic institutions. Students develop security standards, guidelines, and procedures for ensuring integrity, confidentiality, and availability of company information. Also, they design architectures and select technologies that protect information systems from malicious electronic attacks.
- Information Technology Management – students learn to evaluate solutions that have the potential to facilitate administrative tasks and enhance higher education and K-12 curricula. Student training focuses on the selection of appropriate technology and efficient management of technology resources.

Computer Resources

Computer resources (including recent developments in computer technology) are being installed and planned to enhance the learning experiences computer and information sciences students.

Newly designed classrooms include the:

- Seminar Classroom where computer stations are placed on seminar tables in a rectangular configuration to facilitate discussion.
- Multipurpose Discussion Classroom is configured with personal computers, an ELMO station for presenting transparencies, online presentations, as well as diagrams.
- The Multimedia Computer Classroom includes multimedia workstations, a multimedia projector, sound equipment, and video-conferencing tools.
- The Distance Learning Classroom contains networked computer systems, videoconferencing cameras, TV monitors, an electronic whiteboard, and other equipment for presenting or participating in distance activities.