The primary goal of the Computer Science Program at Morehouse is to prepare students for graduate studies in computer science, as well as entry into the workforce as a computer professional at the highest level possible. The program has a continued commitment to develop students that possess fundamental appreciation for computing issues. Because computers will continue to be of central importance to society, the Computer Science Program emphasizes the acquisition of marketable knowledge and skills for professional careers, in areas such as computer systems, programming languages, software engineering, and databases.

The Computer Science Program has been designed to provide a broad introduction to the field, within the context of a liberal arts education. The program is sensitive to the fluid nature of the field of computer science and is flexible enough to respond to the rapidly-changing developments in the field. While majors will share many of the same courses, the liberal arts orientation of the program is intended to permit the student the opportunity to design a specific course study that suits his particular interests.

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### Job Types

#### PROGRAMMING
- Systems
- Scientific Applications
- Business Applications
  - Intelligence
  - Warehousing
- Information Delivery
  - Maintenance
- Project Management

#### Where to find them
- Computer vendors
- Software and computer companies
- Any large organization including: Banks, retail chains, manufacturers, universities, and governmental agencies
- Management consulting firms
- Contract and temporary employers
- Research laboratories

### Ways to Prepare
- Gain relevant experience through internships or co-ops.
- Develop an attention to detail and a flair for creativity.
- Learn to work well within a group and to meet deadlines.
- Supplement computer degree with courses in business, science, or engineering.
- Stay current on programming languages.
- Earn a master’s degree for upper level positions.
- Seek the Certified Computing Professional designation by completing a series of exams and experiential requirements.

### Job Types

#### SYSTEMS DEVELOPMENT
- Analysis
- Design
- Support
- Quality Assurance
- Specialty Systems
  - Database
  - Client-Server
  - Expert

#### Where to find them
- Banks and financial institutions
- Insurance companies
- Consulting firms
- Manufacturers
- Local, state, and federal government
- Computer companies
- Research institutions

### Ways to Prepare
- Develop strong interpersonal skills, and to communicate effectively with technical and non-technical colleagues.
- Gain programming experience. Many analysts begin their careers as programmers.
- Become and effective problem solver.
- Take business courses. Earn an M.B.A. degree for advanced positions.
- Plan to continually educate self on new computer languages and technology.
Students should consult with a departmental advisor on their course selections after they decide to become Computer Science majors. The goal is to make a coherent selection of lower and upper division courses.

## NETWORK TECHNOLOGY

**Installation and maintenance Administration**

### Ways to Prepare
- Work in university computer labs.
- Develop good communication skills and interest in helping others.
- Gain knowledge in a variety of computer areas, including minor programming, software, and hardware.
- Stay abreast of the latest technology and software.
- Earn certifications in networking and computer security.

### Where to Find Them
- Variety of organization and industries

## INTERNET

**Programming**  
**Software Design**  
**Systems Analysis**  
**Hardware Production**  
**Web Page Design**

### Ways to Prepare
- Gain experience as a webmaster through part-time jobs, internships, or volunteering to design web pages for student organizations.
- Learn web-related programming languages.
- Take graphic design courses to develop creativity.
- Learn to communicate and work well with others in a team by participating in group projects or student organizations.
- Earn a master’s degree in computer science for advanced opportunities in programming, analysis, or hardware/software design.

### Where to Find Them
- Network access points
- Backbone operators
- Online service providers
- Internet service providers
- Computer/equipment vendors
- Internet-related companies including: Browsers, Search Engines, Website design services
- Large businesses

## CONSULTING

**System Installation**  
**System Implementation**  
**Training**

### Ways to Prepare
- Obtain a strong technical knowledge of computers, a background in business management, and experience as a systems analyst.
- Learn various programming languages and operating systems.
- Develop exceptional analytical and interpersonal skills.

### Where to Find Them
- Consulting firms
- Self-employed

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(Computer Science, page 2)
### Job Types

#### EDUCATION
- Teaching
- Instructional Technology

#### NON-TECHNICAL
- Customer/Product Support
- Technical Writing
- Sales and Marketing

### Where to Find Them
- Public and private Schools
- Colleges and universities
- Software/hardware manufactures
- Retail stores
- Software vendors

### Ways to Prepare

**EDUCATION**
- Obtain appropriate license and/or certification for public school teaching positions.
- Earn a doctoral degree in computer science for post-secondary teaching.
- Earn a graduate degree in information technology for a related field for instructional technology.
- Develop a research specialty for university teaching.
- Gain experience working with other students through tutoring or positions in computer labs.
- Develop excellent written and oral communication skills.
- Take courses in public speaking.
- Learn to work with all types of people.

**NON-TECHNICAL**
- Develop excellent communication skills and an interest in helping customers solve problems.
- Work in university computer labs.
- Supplement curriculum with technical writing courses to develop skills.
- Seek related work experiences.

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The field of computer science is constantly changing, and the information listed above does not exhaust possible career options. Be sure to speak with your department chair or academic advisor for further guidance on course selections, as well as career planning.