MASTERS OF SCIENCE IN COMPUTER SCIENCE

Fall 2000

The M.S. in Computer Science degree program in the Department of Computer Science at Georgia State University provides students with advanced training in the fundamental principles and processes of computation. The department focuses on the technical aspects of both software and hardware. The computer science faculty are actively engaged in a wide variety of research endeavors. Research efforts are concentrated in artificial intelligence and neural nets, computer architecture, database, graphics and visualization, networks, parallel and distributed computing, programming languages, simulation, and software engineering. Graduate laboratory, research and teaching assistantships are available to graduate students.

The Department of Computer Science accepts applications for each semester and the general deadlines apply. Applicants for graduate assistantships must apply by Feb 15 for fall semesters.

Hard-copies of the forms for Supplemental Application for Computer Science, letters of recommendations, and financial aid may be obtained from the department, or downloaded from the department’s web site at www.cs.gsu.edu by following the link to “Graduate Program in Computer Science.”

1 ADDITIONAL ADMISSION REQUIREMENTS.

In addition to the general requirements of the College of Arts and Sciences, the Department of Computer Science has the following requirements:

1. A baccalaureate degree in computer science, or its equivalent. While we welcome capable students with non-computer-science degrees, they may need some foundation courses.


3. A statement of background and goals.

4. Three letters of recommendations from individuals who can evaluate the applicant’s potential for graduate work in computer science.
2 DEGREE REQUIREMENTS.

1. **Foundation Coursework:**
   If any of the following foundation courses in Computer Science or Mathematics has not been taken in another program, these must be completed at the earliest. 4000-level foundation courses must be taken as their 6000-level counterparts by graduate students.
   
   (a) Foundation coursework in computer science with a grade of at least a “B” in each.
      i. Data Structures (CSc 3410)
      ii. Computer Architecture (CSc 4210)
      iii. Operating Systems (CSc 4320)
      iv. Programming Languages (CSc 4330)
      v. Software Engineering (CSc 4350)
      vi. Automata (CSc 4510)
      vii. Design and Analysis of Algorithms (CSc 4520)
   
   (b) Foundation coursework in mathematics that includes a standard elementary calculus sequence and Discrete Mathematics (Math 2420), with at least a “B” in each.

2. **CSc 8900: Seminar in Computer Science (1 hour).**
   A research training course which must be taken in the first semester.

3. **Twenty-four hours of graduate-level courses**
   in the Department of Computer Science, selected in consultation with an academic advisor, and approved by the Director of Graduate Studies, with a grade of at least a “B” in each course.
   
   (a) Sixteen hours of computer science courses at the 8000-level, exclusive of Research, Thesis Research and Independent Study courses.
   
   (b) An additional eight hours of graduate-level coursework at the 6000-level or above exclusive of Research, Thesis Research and Independent Study courses.

4. **Six hours of Thesis Research (CSc 8999).**
   A thesis committee must be setup no later than two semesters after completing any foundation courses.

5. **Additional Requirements.**
   
   (a) A thesis
   
   (b) A thesis defense