DUAL DEGREE PROGRAM IN COMPUTER SCIENCE
GENERAL EDUCATION AND MAJOR REQUIREMENTS

Students must earn a a minimum 3.00 average (on a 4.0 scale) in all course work. They must have a minimum 3.00 average in all math and science courses required by the program, with no grades lower than a C in these math and science courses. Students must earn a C or higher in courses used to fulfill Emory's Continuing Writing Requirement.

1. General Education Requirements

An Agnes Scott student who has completed all the ASC Specific Standards and Distributional Standards will also have satisfied almost all of the Emory General Education Requirements. An ASC student would need to take Women's Health and Fitness as one of her Physical Education classes, and any other required PE courses at ASC or at Emory.

A description of the Emory College of Arts and Sciences General Education Requirement can be found at http://college.emory.edu/home/academic/general_education/.

ASC Requirement:	Fulfills Emory General Education Requirement:
First Year Seminar	I. First Year Seminar
English 110	II. First Year Writing Requirement (Eng 101 or 181)
Literature	III. Continuing Writing Requirement (1 of 3) - Two writing-intensive courses will be completed at Agnes Scott. The third writing-intensive course will be completed in the final two years at Emory.
Mathematics	IV. Math & Quantitative Reasoning
Science with lab; Second science	V. Science, Nature, Technology (two courses, one with a laboratory component)
Historical Studies and Classical Civilization	VI. History, Society, Cultures (two courses) *Note: these may also count as the second course to satisfy the Continuing Writing requirement. Students are encouraged to select a history or social science course to fulfill ASC's Social and Cultural Analysis standard.*
Social Sciences	
Social and Cultural Analysis	

Foreign Language (4 courses)
  Level 100 courses
  Level 200 courses
	VII. Humanities, Arts, Performance (4 courses total)
	  HAL (two courses in single foreign language)
	  Two additional HAL courses (counts as HAP)
	  HAP course
	  HAP course
	Note: one of these may also count as the second course in the Continuing Writing requirement.

Fine Arts	
Religious and Philosophical Thought	
Physical Education (2 courses)	VIII. Physical Education and Dance (as required by Emory, including courses taken at Agnes Scott)

2. B.A. in Computer Science Major Requirements
a. Core Requirements:

      Math 112 (Calculus II; satisfied by ASC MAT 119)
      Math 221 (Linear Algebra; satisfied by ASC MAT 206)
      CS 170 (Introduction to Computer Science I)
      CS 171 (Introduction to Computer Science II)
      CS 224 (Mathematical Foundations of Computer Science)
      CS 255 (Computer Organization & Architecture I)
      CS 323 (Data Structures and File Organization I)
      CS 450 (Systems Programming)

b. One additional course:

      CS 356 (Programming Languages)
      CS 377 (Database Systems)
      CS 452 (Operating Systems)
      CS 455 (Introduction to Computer Networking)
      CS 456 (Compiler Construction)

c. One additional elective:

      Any CS course numbered 300 or higher
      Math 315 (Numerical Analysis)
      Math 346 (Optimization Theory)
      Math 361 (Probability and Statistics I; satisfied by ASC Math 328)

See http://www.mathcs.emory.edu/programs-undergrad/deg-cs.php for additional information on Emory's B.A. in Computer Science degree requirements.

Students must also take additional courses required for the Agnes Scott College B.A. degree, to total at least 92 semester hours. This may include courses that satisfy distributional requirements or specific standards, and electives.

3. B.S. in Computer Science Major Requirements
a. Core Requirements: same as for B.A.

b. Additional courses:

      CS 424 (Theory of Computing)
      Physics 234 (Introduction to Digital Electronics and Microprocessors; satisfied by ASC PHY 242 & 243)
      One of the following:
          Physics 141 & 142 (Introductory Physics I & II, with Laboratory; satisfied by ASC PHY 102 & 103)
          Physics 151 & 152 (General Physics I & II, with Laboratory; satisfied by ASC PHY 110 & 111)

c. Three additional electives:

      Any CS course numbered 300 or higher
      Math 315 (Numerical Analysis)
      Math 346 (Optimization Theory)
      Math 361 (Probability and Statistics I; satisfied by ASC Math 328)

Students must also take additional courses required for the Agnes Scott College B.A. degree, to total at least 92 semester hours. This may include courses that satisfy distributional requirements or specific standards, and electives.