Bachelor of Science -Computer Science Major
(Computer Information Systems Option)
MAJORCODE: 11.0101B

program components for the Bachelor of Science degree with a major in Computer Science - Computer Information Systems Option include:

1. APPLICABLE GENERAL UNIVERSITY REQUIREMENTS.

To **graduate, each student must:**

- complete a minimum of 33 semester hours of the last 39 semester hours at ASU.
- complete 60 to 64 semester hours of upper level college/university credit (300-400 level courses).
- complete a minimum of 15 semester hours of upper (300/400) level coursework in his or her major at Athens State University, not including courses taken by consortium arrangement. School or departmental regulations may require more than 15 semester hours of coursework in the major at Athens State University.
- complete all course requirements for major(s).
- complete all course requirements for minor (if applicable).
- complete all of the general education requirements for the degree.
- attain an overall grade point average of 2.0, a 2.0 on all coursework attempted at Athens State University and at least a 2.0 in the major field. School or departmental regulations may require more than a 2.0 grade point average (see major requirements in each discipline).
- complete the total hour requirement as specified by the degree.
- complete the teacher certification requirements (if applicable).

EACH STUDENT MUST ASSUME RESPONSIBILITY FOR KNOWING THE ACADEMIC REQUIREMENTS FOR THE DEGREE THAT IS BEING PURSUED.

2. **GENERAL EDUCATION REQUIREMENTS:**

Area 1. Written Composition ..... 6 semester hours __ __

Area 11. Humanities/Fine Arts (12 semester hours)

At least one fine arts course ..... 3 semester hours __
At least one literature course ..... 3 semester hours __
Other Humanities/Fine Arts courses ..... 6 semester hours __ __

Area 111. Mathematics and Natural Sciences (11 semester hours)

Precalculus Algebra or higher ..... 3 semester hours __
Natural Sciences (lab based) ..... 8 semester hours __ __

Area IV. History/Behavioral and Social Sciences (12 semester hours)

At least one history course ..... 3 semester hours __
Economics (ECO 231 Principles of Economics) required ..... 3 semester hours __
Other History/Behavioral or Social Science courses ..... 6 semester hours __ __

TOTAL GENERAL EDUCATION REQUIREMENTS 41 SEMESTER HOURS

3. **MAJOR PREREQUISITE COURSES (PRE-PROFESSIONAL)**

Business Calculus	3 semester hours	___
Principles of Accounting	3 semester hours	___
Statistical Methods of Business I	3 semester hours	___
Microcomputer Applications	3 semester hours	___
CS 305 Concepts of Computer Programming	3 semester hours	___
Computer Programming Courses (any language)	6 semester hours	___ ___
General electives	2 semester hours	___

TOTAL MAJOR PREREQUISITE HOURS: ..... **23 SEMESTER HOURS**

TOTAL GEN. ED. REQ. & MAJOR PREREQUISITE HOURS: ..... **64 SEMESTER HOURS**

4. **PROFESSIONAL COURSES:**

MG 350 Financial Management	3 semester hours	___
M G 346 Principles of Management	3 semester hours	___
M G 353 Project Management	3 semester hours	___
M K 331 Marketing Principles	3 semester hours	___
MA 308 Discrete Mathematics	3 semester hours	___
CS 309 Digital Logic Dcsign	3 semester hours	___
CS 3091-Digital Logic Design Lab	I semester hour	___
CS 317 Computer Science I (C++)	3 semester hours	___
CS 318 Computer Science 11 (C++)	3 semester hours	___
CIS 325 The Digital Enterprise	3 semester hours	___
CIS 365 Visual Application Development	3 semester hours	___
CS 372 Data Structures	3 semester hours,	___
CIS 440 Database Systems	3 semester hours	___
CIS 450 Human-Computer Interaction	3 semester hours	___
CS 451 Software Engineering	3 semester hours	___
CS 452 Senior Software Engineering Project	3 semester hours	___
CS 452L Senior Software Engineering Project Lab	I semester hour	___
Upper Level Computer Science Electives*	6 semester hours	___ ___

*Any computer science (CS), computer information systems (CIS), or computer networking (CN) course to be used as an upper level computer science elective must have prior approval of the student's Faculty Advisor.

TOTAL PROFESSIONAL HOURS ..... **53 SEMESTER HOURS**

5. The Computer Information Systems major must complete a minimum of 24 semester hours of upper division 300/400 level coursework in computer science (CS), Computer Information Systems (CIS), or Computer Networking (CN) at ASU. At least 6 semester hours of CS, CIS, or CN electives must be completed at Athens State University.

6. A minor is not required.

7. **GENERAL ELECTIVES** ..... **11 Semester Hours** ___ ___ ___ ___

8. **TOTAL HOURS FOR GRADUATION** ..... **124-128 SEMESTER HOURS**

9. **Pre-assessment and Exit Examination**:
The Department of Computer Science requires all CS majors to complete both an entrance and an exit examination. Used to place the Student in the appropriate initial course in the CS or CIS curriculum, the entrance examination is developed by the Department. This examination will be graded locally and the results known immediately. For a CS major to graduate from Athens State University, the exit examination must be completed., however, the result of this examination is not a criterion for graduation.

Computer Information Systems Minor

A minor in Computer Information Systems requires 21 semester hours distributed in the following way:

M A 308 Discrete Mathematics	3 semester hours
CS 305 Concepts of Computer Programming	3 semester hours
CS 317 Computer Science I (C++)	3 semester hours
CS 318 Computer Science 11 (C++)	3 semester hours
CIS 325The Digital Enterprise	3 semester hours
CIS 365 Visual Application Development	3 semester hours
Computer Science or Computer Information Systems upper level elective	3 semester hours
TOTAL HOURS IN MINOR	**21 semester hours**