

East Central University
Computer Science- B.S.

0510/UG24

Student Name: _____	Student ID # _____
30 hours at ECU completed	Advisor: _____
60 hours at Sr college completed	
40 hours upper level completed	OSRHE Computer Proficiency Requirement met

Requirements Hours

Courses highlighted in blue are general education courses.

I. General Education 40

A maximum of twelve hours may be counted in both the major/related work and general education.

II. Major in Computer Science 45

A. Required in Computer Science Major 27

CMPSC	1113	Computer Programming I
CMPSC	1133	Computer Programming II
CPSMA	2103	Data Structures
CPSMA	3103	Algorithm Analysis
CMPSC	3113	Operating Systems
CMPSC	3613	Computer Architecture
CMPSC	3943	Software Design & Development
CMPSC	4213	Data Base Design
CMPSC	4473	Theory of Programming Languages

B. Required Electives 18

Eighteen hours in upper level Computer Science with at least 12 hours in CMPSC courses

Requirements Hours

III. Related Work 11-18

CPSMA	3913	Discrete Mathematics
MATH	1513	College Algebra †
MATH	1713	Trigonometry †

One of the following:

MATH 2825 Calculus & Analytical Geometry I **OR**
MATH 2613 Calculus for Bus, Life & Soc Sci

If MATH 2613 taken, then choose **EITHER**

MATH 1223 Intro to Prob & Statistics **OR**
BSEC 2603 Business & Economic Statistics

One of the following:

BUCOM 3133 Bus Communic & Report Writing
COMM 1113 Fundamentals of Human Comm
ENG 3183 Technical and Professional Writing

IV. Minor

Not Required

V. Electives 26-36

An elective course is any college-level course not required by the degree that is utilized to reach the 120 credit hours required for degree completion. Elective courses are chosen according to the interest of the student and can be used in completion of a minor, certificate, or additional major.

Students majoring in computer science are highly encouraged to take upper-level computer science electives to make themselves more attractive to industry recruiters.

VI. Total Hours Required 120

VII. Special Requirements

† With departmental approval, students may omit MATH 1513 and MATH 1713 and begin with MATH 2825.