EAST CENTRAL UNIVERSITY

COMPUTER SCIENCE - B.S.
0510/UG19

Advisor _____

Student's Name_____ **ID No.** _____
DEGREE CHECK INCLUDES CURRENT ENROLLMENT

Checked by _____ **Date** _____ | **Work in progress**_____
Required: | **2.0 minimum required in the following** | **Work lacking:**
124 total hours _____ **completed** | areas: | **Major** ____ **(inc A/C and Related Work)**
30 hrs @ ECU_____ **completed** | **ECU Avg** _____ **Rtn Avg** _____ | **Minor** ____ **(incl Rel Wk)**
(15 of last 30 must be at ECU) _____ | **Major Overall Avg** _____ | **Prof Educ** _____
60 hrs @ Sr College _____ **completed** | **Major ECU Avg**_____ | **General Educ** ____
40 hrs upper level _____ **completed** | **Minor Overall Avg** _____ | **Comp Prof** ___ **met** ___ **not met**
HS Curricular Req __ **met** __ **not met**

REQUIREMENTS   HOURS

I. General Education (44 HOURS)
6 hours (CMPSC 1113 and MATH 1513) counted in the Major

Other hours needed   **35-38**
COMM 1113 may be used as related work.

II. Major in Computer Science   45
  A. Required General Education   3
__ CMPSC 1113 Computer Programming I

  B. Required in Computer Science Major   21
__ CMPSC 1133 Computer Programming II
__ CMPSC 3113 Operating Systems
__ CMPSC 3613 Computer Architecture
__ CMPSC 3943 Software Design & Development
__ CMPSC 4213 Data Base Design
__ CMPSC 4473 Theory of Programming Languages
__ CPSMA 2923 Data Struc & Algorithm Analys

  C. Required Electives   21
Two of the following:
__ CMPSC 2213 Computer Languages (Language named in title listing)
__ CMPSC 2323 Internet Programming
__ CMPSC 3313 Advanced Computer Language (Subject named in title listing)
__ CPSMA 4373 Network Science

Three of the following:
__ CMPSC 3213 Org of Programming Languages
__ CMPSC 3233 Linux Tools
__ CMPSC 3543 Object Oriented Programming
__ CMPSC 4223 Unix System Administration
__ CMPSC 4273 Model and Sim Using Parallel Computing
__ CMPSC 4983 Seminar: (thesis or project)

Six hours from the following:
__ CPSMA 3933 Operations Research
__ CPSMA 4413 Numerical Analysis
__ Department approved electives which may include unused classes from Section II.C.

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REQUIREMENTS   HOURS

III. Related Work   11-18
  A. Required Related Work   3-9
__ CPSMA 3913 Discrete Mathematics
__ MATH 1513 College Algebra
__ MATH 1713 Trigonometry

  B. Required Related Electives   8-9
One of the following:
__ MATH 2825 Calculus & Analytic 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
__ COMM 2253 Communication in the Workplace
__ ENG 3183 Technical Writing

IV. Minor (Not Required)

V. Electives   23-33
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   124

VII. Special Requirements

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

The OSRHE computer proficiency graduation requirement will be met through completion of the degree program.

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