EAST CENTRAL UNIVERSITY

PHYSICS - B.S.
0350/UG20

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)

10 hours (CHEM 1114, CMPSC 1113, and MATH 1513) counted in the Major

Other hours needed   **34**

II. Major in Physics   35
  A. Required in the Physics Core   15
__ PHYS 2115 Engineering Physics I
__ PHYS 2225 Engineering Physics II
__ PHYS 3013 Modern Physics
__ PHYS 3412 Junior Physics Laboratory

  B. Required in the Physics Major   18
__ PHYS 3113 Mechanics I
__ PHYS 3713 Thermodynamics
__ PHYS 3813 Optics
__ PHYS 4113 Electricity & Magnetism-Field Theory
__ PHYS 4313 Introduction to Nuclear Physics
__ PHYS 4513 Quantum Mechanics

  C. Required Electives   2

Two hours Physics electives (3000-4000)

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III. Related Work   27-33
  A. Required Electives   7-10
__ CHEM 1114 General Chemistry I
__ CMPSC 1113 Computer Programming I
__ MATH 1513 College Algebra

REQUIREMENTS	**HOURS**

  B. Required Related Work   20-23
__ CHEM 1214 General Chemistry II
__ MATH 1713 Trigonometry
__ MATH 2825 Calculus & Analytic Geometry I
__ MATH 3025 Calculus & Analytic Geometry II
__ MATH 3033 Calculus & Analytic Geometry III
__ MATH 4113 Differential Equations

IV. Minor (Not Required)

V. Electives   22-28

VI. Total Hours Required   124

VII.Special Requirements
"Teachers" or "methods" courses do not count in the major.

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 CMPSC 1113 (including equated or substituted courses), or testing out of the challenge exam for this course, <u>OR</u> successful completion of an associate of arts or associate of science degree at an Oklahoma two-year college in which the computer skills requirement was met. Satisfaction of this requirement may not reduce or remove any program requirements.