

**EAST CENTRAL UNIVERSITY  
CHEMISTRY - B.S.  
BIOCHEMISTRY CONCENTRATION  
0103/UG17**

Name

Advisor \_\_\_\_\_

Student's Name \_\_\_\_\_ ID No. \_\_\_\_\_

**DEGREE CHECK INCLUDES CURRENT ENROLLMENT**

Checked by \_\_\_\_\_ Date \_\_\_\_\_  
**Required:**  
 124 total hours \_\_\_\_\_ completed  
 30 hrs @ ECU \_\_\_\_\_ completed  
 (15 of last 30 must be at ECU) \_\_\_\_\_  
 60 hrs @ Sr College \_\_\_\_\_ completed  
 40 hrs upper level \_\_\_\_\_ completed  
 HS Curricular Req \_\_\_ met \_\_\_ not met

**Work in progress** \_\_\_\_\_  
 2.0 minimum required in the following  
 areas:  
 ECU Avg \_\_\_\_\_ Rtn Avg \_\_\_\_\_  
 Major Overall Avg \_\_\_\_\_  
 Major ECU Avg \_\_\_\_\_  
 Minor Overall Avg \_\_\_\_\_

**Work lacking:**  
 Major \_\_\_\_\_ (inc A/C and Related Work)  
 Minor \_\_\_\_\_ (incl Rel Wk)  
 Prof Educ \_\_\_\_\_  
 General Educ \_\_\_\_\_  
 Comp Prof \_\_\_ met \_\_\_ not met

**REQUIREMENTS**

**HOURS**

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**HOURS**

**I. General Education (44 HOURS)**

*11 hours (BIOL 1114, CHEM 1114, and MATH 1513) counted in the Major*

Other hours needed **33**

**II. Major in Chemistry-**

**A. Required General Education** **4**  
 \_\_\_ CHEM 1114 General Chemistry I

**B. Required in the Chemistry Core** **16**  
 \_\_\_ CHEM 1214 General Chemistry II  
 \_\_\_ CHEM 3114 Organic Chemistry I  
 \_\_\_ CHEM 3214 Quantitative Analysis  
 \_\_\_ CHEM 4114 Organic Chemistry II

**C. Required in the Biochemistry Major** **3**  
 \_\_\_ CHEM 3483 Instrumental Analysis  
 \_\_\_ CHEM 4213 Biochemistry  
 \_\_\_ CHEM 4221 Biochemistry Laboratory  
 \_\_\_ CHEM 4413 Adv. Inorganic Chemistry  
 \_\_\_ CHEM 4514 Physical Chemistry I  
 \_\_\_ CHEM 4523 Advanced Biochemistry

**D. Recommended Electives**  
 \_\_\_ CHEM 4531 Advanced Biochemistry Lab  
 \_\_\_ CHEM 4421 Advanced Inorganic Chemistry Lab  
 \_\_\_ CHEM 4981-4 Seminar in Chemistry  
 (Subject named in title listing)  
 \_\_\_ CHEM 4991-4 Individual Study in Chemistry  
 (Subject named in title listing)

**III. Related Work** **37-45**

**A. Required General Education** **7**  
 \_\_\_ BIOL 1114 General Biology  
 \_\_\_ MATH 1513 College Algebra

**B. Required Related Work**

**33-38**

- \_\_\_ BIOL 1314 General Zoology **OR**
- \_\_\_ BIOL 2344 General Microbiology
- \_\_\_ BIOL 2184 Human Anatomy
- \_\_\_ BIOL 3634 Human Physiology
- \_\_\_ BIOL 4313 Cell and Molecular Biology
- \_\_\_ BIOL 4545 Advanced Molecular Biology
- \_\_\_ MATH 1713 Trigonometry
- \_\_\_ MATH 2825 Calculus & Analytic Geometry I
- \_\_\_ PHYS 1114 General Physics I **OR**
- \_\_\_ PHYS 2115 Engineering Physics I
- \_\_\_ PHYS 1214 General Physics II
- \_\_\_ PHYS 2225 Engineering Physics II

**IV. Minor (Not Required)**

**V. Electives**

**8-16**

Appropriate choice of electives could lead to a minor in Biology, Mathematics or Physics. See catalog for minor requirements.

**VI. Total Hours Required**

**124**

**VII. Special Requirements**

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

“Teachers” or “methods” courses do not count in the major.

The OSRHE computer proficiency graduation requirement will be met through completion of one of the courses in the institution’s general education computer literacy option (including equated or substituted courses) or testing out of the challenge exam for one of these courses (all courses may not have challenge exams), **OR** 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.

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