

East Central University

Biochemistry - B.S.

0103/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	Hours
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Courses highlighted in blue are general education courses.

I. General Education	40
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A maximum of twelve hours may be counted in both the major/related work and general education.

II. Major in Chemistry - Biochemistry Concentration	38
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A. Required in Chemistry Core	20
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CHEM 1114 General Chemistry I

CHEM 1214 General Chemistry II

CHEM 3114 Organic Chemistry I

CHEM 3214 Quantitative Analysis I

CHEM 4114 Organic Chemistry II

B. Required in Biochemistry Concentration	18
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CHEM 3484 Instrumental Analysis

CHEM 4213 Biochemistry

CHEM 4221 Biochemistry Laboratory

CHEM 4413 Advanced Inorganic Chemistry

CHEM 4514 Physical Chemistry I

CHEM 4523 Advanced Biochemistry

D. Recommended Electives	
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CHEM 4421 Advanced Inorganic Chemistry Laboratory

CHEM 4531 Advanced Biochemistry Laboratory

CHEM 4614 Physical Chemistry II

CHEM 4981- Seminar in Chemistry

(Subject named in title listing)

CHEM 4991- Individual Studies in Chemistry

(Subject named in title listing)

III. Related Work	32-40
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BIOL 1114 General Biology

BIOL 1314 General Zoology **OR**

BIOL 2344 General Microbiology

BIOL 2184 Human Anatomy

BIOL 3634 Human Physiology

BIOL 4313 Cell and Molecular Biology

MATH 1513 College Algebra †

MATH 1713 Trigonometry †

MATH 2825 Calculus and Analytic Geometry I

PHYS 1114 General Physics I **OR**

PHYS 2115 Engineering Physics I

PHYS 1214 General Physics II **OR**

PHYS 2225 Engineering Physics II

IV. Minor	
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No minor is required for the Biochemistry Concentration

V. Electives	13-22
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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.

VI. Total Hours Required	120
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VII. Special Requirements	
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† With department approval, students may omit MATH 1513 and/or MATH 1713 and begin with MATH 2825

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