

East Central University  
 Biochemistry - B.S.  
 0103/UG22

Student Name: _____	Student ID # _____	Advisor: _____
30 hours at ECU completed		
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.*

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

<b>II. Major in Chemistry - Biochemistry Concentration</b>	<b>38</b>
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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		

C. 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)		

<b>III. Related Work</b>	<b>32-40</b>
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BIOL 1114	General Biology		
BIOL 1314	General Zoology <b>OR</b>		
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 <b>OR</b>		
PHYS 2115	Engineering Physics I		
PHYS 1214	General Physics II <b>OR</b>		
PHYS 2225	Engineering Physics II		

<b>IV. Minor</b>	
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No minor is required for the Biochemistry Concentration

<b>V. Electives</b>	<b>13-22</b>
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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.

<b>VI. Total Hours Required</b>	<b>120</b>
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<b>VII. Special Requirements</b>	
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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.