## EAST CENTRAL UNIVERSITY BIOLOGY - B.S. MOLECULAR BIOLOGY CONCENTRATION 0049/UG14

Advisor	

	ident's Name_ GREE CHECK INCLUDES CURRENT	ID No				
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		Work lacking: Major (inc A/C and Related Work) Minor (incl Rel Wk) Prof Educ General Educ Comp Prof met not met Serv Lrng met not met		
REQUIREMENTS HOURS			REQUIREMENTS HOURS			
I.	General Education (45 HOURS) 11 hours (BIOL 1214 or1314, CHEM 1114, counted in the Major Other hours needed	and MATH 1513) <b>34</b>	Choose from th BIOL 2184	Human Anatomy Comparative Vertebrate A		
II.	Major in Molecular Biology	43		Organic Chemistry II		
	A. Required General Education BIOL 1214 General Botany OR BIOL 1314 General Zoology	4	CHEM 4221 H EHS 3114 I MATH 2825 ( PHYS 1214 (	Biochemistry Lab Epidemiology Calc and Analy Geom I General Physics II		
	<ul> <li>B. Required in the Molecular Biology Company</li> <li>BIOL 2243 Introduction to Biotechnology</li> <li>BIOL 2345 General Microbiology</li> <li>BIOL 3434 Genetics</li> <li>BIOL 3553 Genomics and Bioinformatics</li> <li>BIOL 3634 Human Physiology</li> <li>BIOL 4313 Cell and Molecular Biology</li> <li>BIOL 4545 Advanced Molecular Biology</li> </ul>	<i>y</i>	IV. Minor (Requ	the Biology major may be minors whose majors le		
_	BIOL 4765 Molecular Genetics BIOL 4881 Biology Senior Seminar		VI. Total Hours	Required	124	
	C. Required Electives Select 6 hours from the following: BIOL 2773 Forensic Biology BIOL 3013 Research, Methods and Bioet BIOL 3683 Immunology BIOL 4113 Vertebrate Embryology		VII.Special Requirements  With departmental approval, students may omit MATH 1513 and begin with MATH 2825.  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			
III. —	Related Work  A. Required General Education CHEM 1114 General Chemistry I MATH 1513 College Algebra OR MATH 2825 Calculus and Analytic Geor	<b>25-27</b> 7-9 netry I	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.			
	B. Required Related Work CHEM 1214 General Chemistry II CHEM 3114 Organic Chemistry I PHYS 1114 General Physics I	12	Students beginning at East Central University in the fall 2007 semester or later who have earned less than sixty-four semester hours are required to take two classes with designated service-learning component. Students transferring to ECU for the first time in the fall 2007 semester or later with sixty-four or more semester hours will be			
_	Choose one of the following: EHS 3703 Biostatistics and Environ Calc MATH 2213 Intro to Probability and Statis SOC 3833 Statistics for Social Sciences		·	ss with a service-learning co	•	
 	Choose one of the following: MATH 1713 Trigonometry MATH 3583 Applied Statistics	3	MINOK			