

**EAST CENTRAL UNIVERSITY
BIOLOGY - B.S.
MOLECULAR BIOLOGY CONCENTRATION
0049/UG17**

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		

<u>REQUIREMENTS</u>	<u>HOURS</u>	<u>REQUIREMENTS</u>	<u>HOURS</u>
I. General Education (44 HOURS) <i>11 hours (BIOL 1114, PHYS 1114 and MATH 1513) counted in the Major</i>			
Other hours needed	33	B. Required Related Work	26-28
		___ CHEM 1114 General Chemistry I	
		___ CHEM 1214 General Chemistry II	
		___ PHYS 1214 General Physics II	
II. Major in Biology	49-50	___ CHEM 3114 Organic Chemistry I	
A. Required General Education	4	___ CHEM 4213 Biochemistry	
___ BIOL 1114 General Biology		___ CHEM 4221 Biochemistry Lab	
B. Required in the Biology Core	16	One of the following:	
___ BIOL 1214 General Botany		___ MATH 2613 Calculus for Bus, Life & Soc Sciences	
___ BIOL 1314 General Zoology		___ MATH 2825 Calculus & Analytic Geometry I	
___ BIOL 3434 Genetics		One of the following:	
___ BIOL 3634 Human Physiology		___ MATH 2213 Intro to Probability and Statistics	
C. Required for Concentration in Molecular Biology	20-21	___ EHS 3703 Biostatistics & Environmental Calculations	
___ BIOL 2344 General Microbiology		___ SOC 3833 Statistics for Social Sciences	
___ BIOL 3013 Research Methods & Bioethics		___ PSYCH 3833 Behavioral Science Statistics	
___ BIOL 4313 Cell and Molecular Biology		C. Recommended Electives	
___ BIOL 4545 Advanced Molecular Biology		___ CHEM 3314 Quantitative Analysis	
___ BIOL 4881 Biology Senior Seminar		___ CHEM 4114 Organic Chemistry II	
One of the following:		___ BIOL 3683 Immunology	
___ BIOL 2184 Human Anatomy		IV. Minor (Not Required)	
___ BIOL 3245 Comparative Vertebrate Anatomy		V. Electives	6-9
D. Required Electives	9	VI. Total Hours Required	124
Three of the following:		VII. Special Requirements	
___ BIOL 2243 Intro to Biotechnology		With departmental approval, students may omit MATH 1513 and begin with MATH 2825.	
___ BIOL 2773 Forensic Biology		The OSRHE computer proficiency graduation requirement will be met through	
___ BIOL 3553 Genomics and Bioinformatics		completion of one of the courses in the institution's general education computer	
___ BIOL 4763 Biochemical Genetics		literacy option (including equated or substituted courses) or testing out of the	
___ BIOL 3623 Biochemistry of Human Disease		challenge exam for one of these courses (all courses may not have challenge exams),	
III. Related Work	33-35	OR successful completion of an associate of arts or associate of science degree at an	
A. Required General Education	7	Oklahoma two-year college in which the computer skills requirement was met.	
___ PHYS 1114 General Physics I		Satisfaction of this requirement may not reduce or remove any program requirements.	
___ MATH 1513 College Algebra			

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