

**EAST CENTRAL UNIVERSITY
BIOLOGY - B.S.
MOLECULAR BIOLOGY CONCENTRATION
0049/UG19**

Advisor _____

Name

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
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<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>		B. Required Related Work	26-28
Other hours needed	33	<input type="checkbox"/> CHEM 1114 General Chemistry I <input type="checkbox"/> CHEM 1214 General Chemistry II <input type="checkbox"/> CHEM 3114 Organic Chemistry I <input type="checkbox"/> CHEM 4213 Biochemistry <input type="checkbox"/> CHEM 4221 Biochemistry Lab <input type="checkbox"/> PHYS 1214 General Physics II One of the following: <input type="checkbox"/> MATH 2613 Calculus for Bus, Life & Soc Sciences <input type="checkbox"/> MATH 2825 Calculus & Analytic Geometry I One of the following: <input type="checkbox"/> EHS 3703 Biostatistics & Environmental Calculations <input type="checkbox"/> MATH 1223 Intro to Probability and Statistics <input type="checkbox"/> PSYCH 3833 Behavioral Science Statistics <input type="checkbox"/> SOC 3833 Statistics for Social Sciences	
II. Major in Biology	49-50	C. Recommended Electives	
A. Required General Education	4	<input type="checkbox"/> BIOL 3683 Immunology <input type="checkbox"/> CHEM 3314 Quantitative Analysis <input type="checkbox"/> CHEM 4114 Organic Chemistry II	
<input type="checkbox"/> BIOL 1114 General Biology		IV. Minor (Not Required)	
B. Required in the Biology Core	16	V. Electives	6-9
<input type="checkbox"/> BIOL 1214 General Botany <input type="checkbox"/> BIOL 1314 General Zoology <input type="checkbox"/> BIOL 3434 Genetics <input type="checkbox"/> BIOL 3634 Human Physiology		VI. Total Hours Required	124
C. Required for Concentration in Molecular Biology	20-21	VII. Special Requirements	
<input type="checkbox"/> BIOL 2344 General Microbiology <input type="checkbox"/> BIOL 3013 Research Methods & Bioethics <input type="checkbox"/> BIOL 4313 Cell and Molecular Biology <input type="checkbox"/> BIOL 4545 Advanced Molecular Biology <input type="checkbox"/> BIOL 4881 Biology Senior Seminar One of the following: <input type="checkbox"/> BIOL 2184 Human Anatomy <input type="checkbox"/> BIOL 3245 Comparative Vertebrate Anatomy		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 challenge exam for one of these courses (all courses may not have challenge exams), <u>OR</u> 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.	
D. Required Electives	9		
Three of the following:			
<input type="checkbox"/> BIOL 2243 Intro to Biotechnology <input type="checkbox"/> BIOL 2773 Forensic Biology <input type="checkbox"/> BIOL 3553 Genomics and Bioinformatics <input type="checkbox"/> BIOL 3623 Biochemistry of Human Disease <input type="checkbox"/> BIOL 4763 Biochemical Genetics			
III. Related Work	33-35		
A. Required General Education	7		
<input type="checkbox"/> MATH 1513 College Algebra <input type="checkbox"/> PHYS 1114 General Physics I			

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