

**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 _____ 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>
<b>I. General Education (44 HOURS)</b> <i>11 hours (BIOL 1114, PHYS 1114 and MATH 1513) counted in the Major</i>		<b>B. Required Related Work</b>	26-28
Other hours needed	33	_____ CHEM 1114 General Chemistry I _____ CHEM 1214 General Chemistry II _____ PHYS 1214 General Physics II _____ CHEM 3114 Organic Chemistry I _____ CHEM 4213 Biochemistry _____ CHEM 4221 Biochemistry Lab  One of the following: _____ MATH 2613 Calculus for Bus, Life & Soc Sciences _____ MATH 2825 Calculus & Analytic Geometry I  One of the following: _____ MATH 2213 Intro to Probability and Statistics _____ EHS 3703 Biostatistics & Environmental Calculations _____ SOC 3833 Statistics for Social Sciences _____ PSYCH 3833 Behavioral Science Statistics	
<b>II. Major in Biology</b>	<b>49-50</b>	<b>C. Recommended Electives</b>	
<b>A. Required General Education</b> _____ BIOL 1114 General Biology	4	_____ CHEM 3314 Quantitative Analysis _____ CHEM 4114 Organic Chemistry II _____ BIOL 3683 Immunology	
<b>B. Required in the Biology Core</b> _____ BIOL 1214 General Botany _____ BIOL 1314 General Zoology _____ BIOL 3434 Genetics _____ BIOL 3634 Human Physiology	16	<b>IV. Minor (Not Required)</b>	
<b>C. Required for Concentration in Molecular Biology</b> _____ BIOL 2344 General Microbiology _____ BIOL 3013 Research Methods & Bioethics _____ BIOL 4313 Cell and Molecular Biology _____ BIOL 4545 Advanced Molecular Biology _____ BIOL 4881 Biology Senior Seminar  One of the following: _____ BIOL 2184 Human Anatomy _____ BIOL 3245 Comparative Vertebrate Anatomy	20-21	<b>V. Electives</b>	<b>6-9</b>
<b>D. Required Electives</b> Three of the following: _____ BIOL 2243 Intro to Biotechnology _____ BIOL 2773 Forensic Biology _____ BIOL 3553 Genomics and Bioinformatics _____ BIOL 4763 Biochemical Genetics _____ BIOL 3623 Biochemistry of Human Disease	9	<b>VI. Total Hours Required</b>	<b>124</b>
<b>III. Related Work</b>		<b>VII. Special Requirements</b>	
<b>A. Required General Education</b> _____ PHYS 1114 General Physics I _____ MATH 1513 College Algebra	7	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.	
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