

**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> 11 hours (BIOL 1114, PHYS 1114 and MATH 1513) counted in the Major  Other hours needed <span style="float: right;"><b>33</b></span>		<b>B. Required Related Work</b>	26-28
<b>II. Major in Biology</b> <span style="float: right;"><b>49-50</b></span>  <b>A. Required General Education</b> <span style="float: right;">4</span> ___ BIOL 1114 General Biology  <b>B. Required in the Biology Core</b> <span style="float: right;">16</span> ___ BIOL 1214 General Botany ___ BIOL 1314 General Zoology ___ BIOL 3434 Genetics ___ BIOL 3634 Human Physiology  <b>C. Required for Concentration in Molecular Biology</b> <span style="float: right;">20-21</span> ___ 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  <b>D. Required Electives</b> <span style="float: right;">9</span> 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		___ 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>C. Recommended Electives</b> ___ CHEM 3314 Quantitative Analysis ___ CHEM 4114 Organic Chemistry II ___ BIOL 3683 Immunology	
<b>III. Related Work</b> <span style="float: right;"><b>33-35</b></span>  <b>A. Required General Education</b> <span style="float: right;">7</span> ___ PHYS 1114 General Physics I ___ MATH 1513 College Algebra		<b>IV. Minor (Not Required)</b>  <b>V. Electives</b> <span style="float: right;"><b>6-9</b></span>  <b>VI. Total Hours Required</b> <span style="float: right;"><b>124</b></span>  <b>VII. Special Requirements</b> 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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