

**East Central University**  
**College of Health Sciences**  
**2025-2026 Biology - Molecular Biology      0049**

<b>FIRST YEAR</b>	
<b>Fall Semester</b> BIOL1114 General Biology MATH1513 College Algebra ENG1113 Freshman Composition I ____3 General Education-Cultural (IKC*) UNIV1001 Tiger Connect  <b>14 TOTAL HOURS</b>	<b>Spring Semester</b> BIOL1134 General BiologyII CHEM1114 General Chemistry I ____3 General Education-Cultural (GC*) ____3 Written Communication PS1113 US Government  <b>17 TOTAL HOURS</b>
<b>SECOND YEAR</b>	
<b>Fall Semester</b> BIOL2344 General Microbiology CHEM1214 General Chemistry II ____4 Required Molecular Elective ____3 General Ed-Exploration (any SLO*)  <b>15 TOTAL HOURS</b>	<b>Spring Semester</b> BIOL3434 Genetics CHEM3114 Organic Chemistry I MATH2613 Calc. for Bus., Life, Soc. Sci ____3 General Education Elective  <b>14 TOTAL HOURS</b>
<b>THIRD YEAR</b>	
<b>Fall Semester</b> BIOL4313 Cell & Molecular Biology BIOL3__4 Gen OR Human Physiology PHYS1114 General Physics I CHEM4213 Biochemistry CHEM4221 Biochemistry Lab ____3 Required Molecular Elective  <b>18 TOTAL HOURS (MCAT prep)</b>	<b>Spring Semester</b> BIOL3013 Research Methods & Bioethics ____3 Required Molecular Elective ____4 Elective PHYS1214 General Physics II  <b>14 TOTAL HOURS</b>
<b>FOURTH YEAR</b>	
<b>Fall Semester</b> EHS3703 Biostatistics ____3 General Education Elective ____4 Elective ____3 Elective HIST24-3 United States History  <b>16 TOTAL HOURS</b>	<b>Spring Semester</b> BIOL4545 Adv. Molecular Biology BIOL4883 Biology Senior Seminar ____3 Required Molecular Elective ____1 Elective  <b>12 TOTAL HOURS</b>
<b>120 TOTAL HOURS</b>	

\*GC= Global Citizenship; IKC=Intercultural Knowledge and Competence are both required but interchangeable

\*\*remaining 7hr of GenEd electives cannot also be listed as required on major degree sheet