

East Central University
 BIOLOGY- Medical Laboratory Sciences Concentration
 Major Code=004A/ UG25

Student Name: _____ Student ID # _____

30 hours at ECU completed
 60 hours at Sr college completed
 40 hours upper level completed

Advisor: _____
 OSRHE Computer Proficiency Requirement met

Requirements	Hours	Hours
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I. General Education	40	
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A maximum of 12 hours may be counted in both the major/related work and general education.

II. Major in Biology	63-64	
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| A. Required Core Courses | | 19 |
| BIOL 1114 | General Biology I | |
| BIOL 1134 | General Biology II | |
| BIOL 3434 | Genetics | |
| <i>one of the following:</i> | | |
| BIOL 3514 | General Physiology OR | |
| BIOL 3634 | Human Physiology | |
| BIOL 4883 | Senior Seminar | |

B. Required in Medical Lab Science Concentration		41-42
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| BIOL 2344 | Microbiology | |
| BIOL 3683 | Immunology | |
| MEDTE 4117 | Clinical Microbiology | |
| MEDTE 4125 | Clinical Chemistry I | |
| MEDTE 4236 | Clinical Hematology | |
| MEDTE 4246 | Clinical Immunology | |
| MEDTE 4325 | Clinical Chemistry II | |
| MEDTE 4351 | Topics in Med Tech | |
| <i>one of the following:</i> | | |
| BIOL 2184 | Human Anatomy OR | |
| BIOL 3245 | Comparative Vertebrate Anatomy | |

III. Required Related Work		19-21
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| CHEM | 1214 | General Chemistry II | |
| CHEM | 3114 | Organic Chemistry I | |
| CHEM | 4213 | Biochemistry | |
| CHEM | 4221 | Biochemistry Lab | |
| MATH | 1513 | College Algebra † OR | |
| | MATH 2825 | Calculus and Analytic Geometry I | |

IV. Minor		
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Not required.

V. Electives		10-13
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An elective course is any college-level course not required by the degree that is utilized to reach the 120 credit hours required for degree completion. Elective courses are chosen according to the interest of the student and can be used in completion of a minor, certificate, or additional major.

VI. Total Hours Required		120
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VII. Special Requirements		
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† With department approval, students may omit MATH 1513 and begin with MATH 2825.

Students interested in the 3+1 degree program (ECU-OSUCOM) can apply for early admission to the OSU College of Osteopathic Medicine and earn an ECU bachelors degree in biology by completing the first year of medical school at OSUCOM (D.O. degree). Complete information on the program can be obtained from the Records Office or the Department of Biological and Environmental Sciences.