

**EAST TENNESSEE STATE UNIVERSITY — COLLEGE OF ARTS AND SCIENCES**  
**DEPARTMENT OF CHEMISTRY**  
**CHEMISTRY MAJOR—BIOCHEMISTRY CONCENTRATION**

Name: \_\_\_\_\_ E#: \_\_\_\_\_

**TBR Requirements: See other check sheet**

<p><b>Biochemistry Concentration Core (22 cr)</b></p> <p>CHEM 1110/11: General Chemistry I Lec/Lab <input style="width: 50px; height: 20px;" type="text"/></p> <p>CHEM 1120/20: General Chemistry II Lec/Lab <input style="width: 50px; height: 20px;" type="text"/></p> <p>CHEM 2010: Organic Chemistry I Lecture <input style="width: 50px; height: 20px;" type="text"/></p> <p>CHEM 2011: Organic Chemistry I Lab <input style="width: 50px; height: 20px;" type="text"/></p> <p>CHEM 2020: Organic Chemistry II Lecture <input style="width: 50px; height: 20px;" type="text"/></p> <p>CHEM 2021: Organic Chemistry II Lab <input style="width: 50px; height: 20px;" type="text"/></p> <p>CHEM 2220: Quantitative Analysis Lecture <input style="width: 50px; height: 20px;" type="text"/></p> <p>CHEM 2221: Quantitative Analysis Lab (T) <input style="width: 50px; height: 20px;" type="text"/></p>	<b>Grade</b>	<p><b>Pick one of the following</b></p> <p>BIOL 3141: Genetics Lab (W/T) <input style="width: 50px; height: 20px;" type="text"/></p> <p>BIOL: 4597: Recombinant DNA Lab (T) <input style="width: 50px; height: 20px;" type="text"/></p> <p><b>Select one from the following (3-5 cr)</b></p> <p>BIOL 3150/51: Cell Biology Lec/Lab (O) <input style="width: 50px; height: 20px;" type="text"/></p> <p>BIOL 4647: Molecular Biology <input style="width: 50px; height: 20px;" type="text"/></p> <p>HSCI 3320/21: General Microbiology Lec/Lab <input style="width: 50px; height: 20px;" type="text"/></p> <p>HSCI 3540: Immunology <input style="width: 50px; height: 20px;" type="text"/></p> <p>PHYS: Biophysics <input style="width: 50px; height: 20px;" type="text"/></p>	<b>Grade</b>
<p><b>Additional Required Courses (52-56 cr)</b></p> <p>BIOL 1110/11: Biology for Majors I Lec/Lab <input style="width: 50px; height: 20px;" type="text"/></p> <p>BIOL 1120/21: Biology for Majors II Lec/Lab <input style="width: 50px; height: 20px;" type="text"/></p> <p>BIOL 1130/31: Biology for Majors III Lec/Lab <input style="width: 50px; height: 20px;" type="text"/></p> <p>BIOL 3100: General Genetics <input style="width: 50px; height: 20px;" type="text"/></p> <p>BIOL 4147/57: Biochem. of Macromolecules Lec/Lab (W) <input style="width: 50px; height: 20px;" type="text"/></p> <p>BIOL 4167/77: Biochem. of Metabolism Lec/Lab (W) <input style="width: 50px; height: 20px;" type="text"/></p> <p>CHEM 3110: Descriptive Inorganic Chemistry <input style="width: 50px; height: 20px;" type="text"/></p> <p>CHEM 3611: Introductory Integrated Lab (W) <input style="width: 50px; height: 20px;" type="text"/></p> <p>CHEM 3750: Physical Chemistry I <input style="width: 50px; height: 20px;" type="text"/></p> <p>CHEM 3760: Physical Chemistry II <input style="width: 50px; height: 20px;" type="text"/></p>	<b>Grade</b>	<p><b>Other Required Courses (16-18 cr)</b></p> <p>MATH 1910: Calculus I <input style="width: 50px; height: 20px;" type="text"/></p> <p>MATH 1920: Calculus II <input style="width: 50px; height: 20px;" type="text"/></p> <p>PHYS 2010/11: General Physics I Non-Calc Lec/Lab (W) <input style="width: 50px; height: 20px;" type="text"/></p> <p>PHYS 2020/21: General Physics II Non-Calc Lec/Lab (W) <input style="width: 50px; height: 20px;" type="text"/></p> <p style="text-align: center;"><b>OR</b></p> <p>PHYS 2110: Technical Physics I-Calculus Based <input style="width: 50px; height: 20px;" type="text"/></p> <p>PHYS 2120: Technical Physics II-Calculus Based. <input style="width: 50px; height: 20px;" type="text"/></p>	<b>Grade</b>
<p><b>Two of the Following (4 cr)</b></p> <p>CHEM 4611: Advanced Integrated Lab— Dynamics (W) <input style="width: 50px; height: 20px;" type="text"/></p> <p>CHEM 4621: Advanced Integrated Lab— Structures (W) <input style="width: 50px; height: 20px;" type="text"/></p> <p>CHEM 4631: Adv. Integrated Lab— Analytical Tech. (W) <input style="width: 50px; height: 20px;" type="text"/></p>	<b>Grade</b>	<p><b>Other Bachelor of Science Required Courses</b></p> <p>PHIL 2640: Science and the Modern World <input style="width: 50px; height: 20px;" type="text"/></p> <p>SPCH 2320: Argumentation and Debate <input style="width: 50px; height: 20px;" type="text"/></p>	<b>Grade</b>

(W) denotes course that satisfies a writing intensive requirement. (O) denotes course that satisfies an oral intensive requirement. (T) denotes course that satisfies a technology intensive

Elective Requirements			0-4 cr	
Subject	Course #	Title	Hours	Grade

Electives may include the one or more of the following recommended courses during the last semester of study:

BIOC 5100: Protein Structure and Function, BIOC 5350: Molecular Immunology, BIOC 5600: Genetics and Molecular Biology, BIOC 5700: Macromolecular Interactions, BIOL 3992 Research Orientation, BIOC 4900 Special Problems in Biochemistry, BIOL 4900: Independent Study, CHEM 4900: Research in Chemistry

Student Signature: \_\_\_\_\_

Advisor Signature: \_\_\_\_\_