| Biochemistry Bachelor of Science Checklist |
| :--- |
| Suggested First Year Courses: |
| CHEM 111/117 GENERAL I |
| MATH 118/119 or 121 CALCULUS I |
| CHEM 112/118 GENERAL II |
| MATH 122 CALCULUS II |
| BIOL 190 PRINCIPLES OF BIOLOGY |
| Suggested Second Year Courses: |
| CHEM 221 ORGANIC I |
| CHEM 222 ORGANIC II |
| BIOL 210 CELL BIOLOGY |
| CHEM 255: QUANTITATIVE CHEM ANALYSIS (1/2 unit) |
| Required before taking Physical Chemistry (CHEM 331): |
| One year of Calculus (MATH 118/119 or 121 and 122), as |
| shown above AND: |
| One year of Physics: |
| Either PHYS 201 GENERAL I |
| AND |
| PHYS 202 GENERAL II (sequence starts in spring and is calculus |
| based) |


| CHEMISTRY ELECTIVE COURSES: |  |
| :--- | :--- |
| CHEM 260 DESCRIPTIVE INORGANIC CHEMISTRY |  |
| CHEM 270 ENVIRONMENTAL CHEMISTRY |  |
| CHEM 299 SPECIAL TOPICS |  |
| CHEM 332 PHYSICAL CHEMISTRY II |  |
| CHEM 340 PHARMACEUTICAL CHEMISTRY |  |
| CHEM 350 INSTRUMENTAL ANALYSIS |  |
| CHEM 405 INDEPENDENT STUDY AND RESEARCH (1/2 <br> unit) |  |
| CHEM 406 INDEPENDENT STUDY (1 unit) |  |
| CHEM 407 INDEPENDENT STUDY (1/2 unit) |  |
| CHEM 420 ADVANCED ORGANIC CHEMISTRY |  |
| CHEM 460 ADVANCED INORGANIC CHEMISTRY |  |
| CHEM 495 HONORS PROJECT (1/2 unit) |  |
| CHEM 496 HONORS PROJECT |  |
| CHEM 497 HONORS PROJECT (1/2 unit) |  |
| CHEM 499 SPECIAL TOPICS |  |
| All biochemistry majors are strongly encouraged to do research, either during the <br> academic year or during the summer. Stipends may be available to support summer <br> research. |  |
| BIOL 380 and BIOL 400, as well as CHEM 260, 270, 420, and 460 are offered on an <br> alternating year schedule. Students should work with their advisors in scheduling these <br> courses as well as physics. |  |
| Students planning graduate work may wish to strengthen their program of study by <br> including a second semester of physical chemistry (CHEM 332), a semester of <br> analytical chemistry (CHEM 350), and additional courses in cell or molecular biology. |  |

