

COURSE REQUIREMENTS FOR BACHELOR OF ARTS OR
BACHELOR OF SCIENCE IN BIOCHEMISTRY

- A. THE GENERAL EDUCATION AND TOTAL UNIVERSITY CREDIT REQUIREMENTS MUST BE MET.
NOTE: See General Education Goals for B.S. or B.A. degree (ISU Catalog). 128 total minimum credits are required for graduation. 36 of these must be upper division credits.
- B. COURSES IN BIOLOGICAL SCIENCES: NUMBER OF CREDITS
BIOL 101 Biology I 4
BIOL 102 Biology II 4
BIOL 206 Cell Biology 4
BIOL 235 General Microbiology 4
BIOL 334 Experimental Biochemistry 1
BIOL 445 Biochemistry I 3
BIOL 447 Biochemistry II 3
BIOL 448 Advanced Experimental Biochemistry 2
SENIOR SEMINARS: 2
BIOL 491, 492, 494, CHEM 491, 492 (At least 1 credit of seminar must be in CHEM 491, 492, or BIOL 494)
- C. COURSES IN MATHEMATICS
MATH 147 Precalculus 5
(OR MATH 143 and 144)
MATH 170 Calculus I 5
MATH 175 Calculus II 4
Additional courses in MATH that are highly recommended for students planning to attend graduate school in biochemistry.
MATH 275, 330, or 360.
- D. COURSES IN CHEMISTRY
CHEM 111 General Chemistry I 5
CHEM 112 General Chemistry II 4
CHEM 114 Cations and Anions 1
CHEM 301 Organic Chemistry I 3
CHEM 303 Organic Chemistry I Lab 1
CHEM 302 Organic Chemistry II 3
CHEM 304 Organic Chemistry II Lab 1
CHEM 232 Quantitative Analysis 3
CHEM 234 Quantitative Analysis Lab 1
CHEM 331 Instrumental Analysis 2
CHEM 334 Instrumental Analysis Lab 2
CHEM 351 Physical Chemistry 3
CHEM 352 Physical Chemistry 3
Additional courses in CHEMISTRY that are highly recommended for students planning to attend graduate school in biochemistry. CHEM 211 or CHEM 305; CHEM 453
- E. COURSES IN PHYSICS
PHYS 211 Engineering Physics I 4
PHYS 213 Engineering Physics I Lab 1
PHYS 212 Engineering Physics II 4
PHYS 214 Engineering Physics II Lab 1
- F. COURSE IN FOREIGN LANGUAGE
LANG XXX Foreign Language 8
(Any of the foreign languages offered at ISU will satisfy this requirement. This requirement is waived for those who have taken 2 or more years of high school foreign language with a grade of "C" or above. A high school transcript must be delivered to the Department of Biological Sciences).