Revised May 2009

Suggested Course Sequence for B.S. Degree in Biochemistry
Honors College Curriculum

First Semester	15
CHEM 113 Concepts in Chem I	4
MATH 125 Calculus I	3
HNRC 101 Honors Core I	5
Health and Wellness	3

Second Semester	15
CHEM 114 Concepts in Chem II	4
MATH 126 Calculus II	3
HNRC 102 Honors Core II	5
Social Science (Non-Western)	3

Third Semester	15
BIOL 111 Principles of Biology I	4
CHEM 231 Organic Chemistry I	4
PHYS 131 Physics I	3
PHYS 141 Physics I Lab	1
ENGL 202 Research Writing	3

Fourth Semester	15
MATH 225 Calculus III	3
CHEM 232 Organic Chemistry II	4
PHYS 132 Physics II	3
PHYS 142 Physics II Lab	1
HNRC 202 Honors Core: Sciences	4

Fifth Semester	14
BIOC 301 Biochemistry I	3
BIOC 311 Biochemistry Lab I	1
BIOL 263 Genetics	3
CHEM 340 Physical Chemistry	3
HNRC 201 Honors Core III	4

Sixth Semester	17
BIOC 302 Biochemistry II	3
BIOC 312 Biochemistry Lab II	1
BIOL 250 Principles of Microbiology	3
CHEM 323 Analytical Methods	4
Additional Honors Course	3
Social Science or Elective	3

Seventh Semester	15
BIOC 401 Lab Meth Biol & Biotech	3
BIOC 480 Biochemistry Seminar I	1
BIOC 482 Research in Biochemistry	1
Social Science or Elective	3
Elective[1]	4
Elective	3

Eighth Semester	14
BIOC 481 Special Topics Biochem	3
BIOC 490 Biochemistry Seminar II	1
BIOC 482 Research in Biochemistry	1
HNRC 499 Honors Synthesis	3
Elective	3
Elective	3

The sequence for certain courses is inflexible – for example, CHEM 113, 114, 231, and 232 must be completed in the order shown. In addition, these courses must be completed before the BIOC courses can be started. Prerequisites for each course are given in the catalog. Required courses in *italics* are offered only one semester per year (either Fall or Spring); others are offered both semesters, allowing some flexibility in the sequence.

Flexible courses include: ENGL 202, one Additional Honors Course, Social Sciences (1 to 3 courses depending on HNRC 202 units completed), two Controlled Electives (from 300- or 400-level BIOC/BIOL/CHEM courses, COSC110, or MATH 216), and Free Electives (as required to have a total of 120 credits). In this suggested sequence the required flexible courses are taken before the elective courses; variations in the sequence are possible and may be advisable.

Students intending to apply to medical schools are advised to complete BIOL 151, Human Physiology and BIOL 331, Animal Developmental Biology. BIOL 331 can be used as a Controlled Elective.

CHEM 111/112 are acceptable substitutes for CHEM 113/114 for students declaring a Biochemistry major after completion of one or both courses.

[1] Math 216 or another 4 credit elective must be included in order for this sequence to give the required 120 credits.