

Bachelor of Arts in Chemistry: Biochemistry Option

The BA degree track in Biochemistry is recommended for wanting to go on to medical, dental and other health related pre-professional occupations, and those interested in working in the chemical industry with emphasis biotechnology and pharmaceuticals, that would require a strong background in biochemistry.

Requirements

In addition to the "General Requirements for Undergraduate Degrees at IU Southeast" (General Education: ENG W131, SPCH-S121, First Year Seminar, Ethical Reasoning (PHIL-P100 recommended), Diversity (POLY-Y107 or 109, SOC-S163 recommended), Arts course, Humanities course (PHIL-P100 recommended), 2 Social and Behavioral Sciences courses (POLY-Y107 or 109, SOC-S163 recommended) and "General Requirements for the Bachelor of Arts," (1 additional Social and Behavioral Sciences course, 2 Historical Investigation courses, 4 semesters of Foreign Language, 1 Biology course) described in this bulletin, degree candidates must complete one additional communication course (ENG-W234), at least 29 credit hours in chemistry, 6 credits of chemistry electives chosen from the list below, 5 credit hours in biology (BIOL-L102¹), 3 credit hours in mathematics (MATH-M119²), 5 credit hours in physics (PHYS-P201 or 221³) and 18 credit hours of science electives chosen from the list below, with a grade of C or higher in each core course. Students with credits from other institutions pursuing a major in chemistry must complete at least three advanced chemistry courses (300 level or higher) and 1 credit hour of seminar (CHEM C 301, C 302, or C 305) at IU Southeast. It is recommended that transfer students consult a Chemistry Advisor to determine course transfer equivalencies. For more information contact an advisor at the School of Natural Sciences (812) 941-2184.

Minimum Required Courses CHEM-C 105, C 106, C 125, C 126, C 301 or C 302, C 341, C 342, C 343, C 344, C 3484, C 485, C486; ENG-W 234; MATH-M 119; and PHYS-P 201 or P 221.

Chemistry Elective Courses (choose 2 courses – 6 credits) CHEM-C 315, C 317, C 318, C 361, C 362, C 364 and C 430.

Elective courses required to complete graduation credit hours could be chosen to satisfy a minor requirement in another subject area. Additional courses may be needed.

¹BIOL-L211 is strongly recommended for pre-medical, pre-dental, and other pre-professional students

²M215 is strongly recommended and choosing M216 as elective is very desirable.

³A second semester of Physics (PHYS-P202 or P222) is strongly recommended for pre-medical, pre-dental, and other pre-professional students.

Students who take MATH-M311 and M313 or M303 qualify to receive a Minor in Mathematics.

Students who complete 10 credits of 100-Level, 3 credits of 200-Level and 6 credits of 300-Level Biology courses qualify to receive an Associate of Arts in Biology

Suggested First-Year Program

<i>First Semester</i>	<i>Credits</i>
English W131	3
Chemistry C105	3
Chemistry C125	2
Math M119	3
Speech S121	3
FYS	1

<i>Second Semester</i>	<i>Credits</i>
Chemistry C106	3
Chemistry C126	2
Elective - Math M216 recommended	5
BIOL-L101	5

Suggested Second-Year Program

<i>First Semester</i>	<i>Credits</i>
Chemistry C341	3
Chemistry C343	2
Gen Ed – Historical Investigation	3
Physics P201	5
Elective	3

<i>Second Semester</i>	<i>Credits</i>
Chemistry C342	3
Chemistry C344	2
English W234	3
Elective - Physics P202 recommended	5
Elective	3

Suggested Third-Year Program

<i>First Semester</i>	<i>Credits</i>
Foreign Language	4
Chemistry C484	3
CHEM- Cxxx	3
Gen. Education – Arts	3
Elective	3

<i>Second Semester</i>	<i>Credits</i>
Foreign Language	4
Chemistry C485	3
Gen. Education – Social Science	3
Gen Ed – Historical Investigation	3
Elective	3

Suggested Fourth-Year Program

<i>First Semester</i>	<i>Credits</i>
Chemistry C486	2
Gen. Education – Social Science	3
Foreign Language	3
Gen Ed – Humanities/Ethical Reasoning	3
Elective - BIOL-L211 (recommended)	3

<i>Second Semester</i>	<i>Credits</i>
Chemistry C302	1
Foreign Language	3
CHEM- Cxxx	3
Gen Ed – Social Science/Diversity	3
Elective	3

The above sample curriculum does not include any summer sessions/courses. Some of the required courses may be taken during the summer sessions enabling the student to take more electives towards a minor.

The following courses will **not** count toward the Chemistry requirements and/or electives:
CHEM-C100, C101, C121, C102, C122.