



East Central College

/Associate of Arts to Bachelor of Science in Chemistry: Biochemistry

Students should complete the Associate of Arts Degree (AA) at East Central College to prepare for a smooth transition to a Bachelor of Science in Chemistry: Biochemistry Option at Southeast Missouri State University.

ECC / FIRST SEMESTER	
CHM111 General Chemistry I	5
COL100 Campus Orientation	0
COL 101 Falcon Seminar: STEM	1
COM101 Oral Communications or COM110 Public Speaking	3
ENG 101 English Comp. I	3
MTH 190 Analytical Geometry & Calculus I	5
PSC CIVICS Civics Achievement Exam	0
Total Hours	17

ECC / SECOND SEMESTER	
CHM112 General Chemistry II	5
ENG102 English Comp II or ENG104 Technical Writing	3
HST101 US History to 1877, HST102 US History since 1877, or PSC102 U.S. Government I	3
BIO 121 Principles of Biology I	5
Total Hours	16

ECC / THIRD SEMESTER	
CHM 205 Organic Chemistry I	5
Core 42 Social Science Requirement	3
Core 42 Humanities/Fine Arts Requirement	3
Core 42 Humanities/Fine Arts Requirement	3
Total Hours	14

ECC / FOURTH SEMESTER	
CHM 206 Organic Chemistry II	5
Core 42 Social Science Requirement	3
Core 42 Humanities/Fine Arts Requirement	3
PHY 211/PHY212 General Physics I	5
Total Hours	16

SOUTHEAST / FIFTH SEMESTER	
BI283 Genetics	4
CH271 Foundations of Analytical Chemistry	5
CH360 Polymer Chemistry	1
CH531 Foundations of Biochemistry	3
PH121 Introductory Physics II or PH231 General Physics II	5
Total Hours	18

SOUTHEAST / SIXTH SEMESTER	
BI310 General Microbiology	4
CH295 Chemistry Seminar II	2
CH532 Advanced Biochemistry	2
CH575 Chemical Instrumentation or BI/CH/FS Electives (300 level or above)	3-4
FS552 Forensic Serology and DNA Analysis	2
Total Hours	13-14

SOUTHEAST / SEVENTH SEMESTER	
CH306 Inorganic Chemistry	3
CH420 Forensic Chemistry	4
CH360 Polymer Chemistry	1
CH533 Biochemistry Lab	2
Electives (300 level or above)	6
Total Hours	16

SOUTHEAST / EIGHTH SEMESTER	
BI245 Lab Methods in Biotechnology	3
CH495 Chemistry Seminar 3	1
CH575 Chemical Instrumentation or BI/CH/FS Electives (300 level or above)	3-4
MA223 Elementary Probability and Statistics OR MA423 Statistical Analysis for Forensic Science	3
Electives (300 level or above)	3
Total Hours	13-14

Degree requirements for all students: A minimum of 120 credit hours, completion of the General Education program, and 39 senior division hours (at or above the 300-level). In addition, a minimum of 30 credit hours must be taken in residence (at Southeast) which could result in needing additional credit hours.

Students should refer to Southeast's Undergraduate Bulletin or Degree Works for additional graduation requirements for your program.