

East Central College

/Associate of Arts to Bachelor of Science in Chemistry: Comprehensive Chemistry (American Chemical Society Certified Track)

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: Comprehensive Chemistry Option (ACS Track) at Southeast Missouri State University.

ECC / FIRST SEMESTER	
CHM 111 General Chemistry I	5
COL 100 Campus Orientation	0
COL 101 Falcon Seminar: STEM	1
COM 101 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	
CHM 112 General Chemistry II	5
ENG 102 English Comp II or ENG104 Technical Writing	3
HST 101 US History to 1877, HST 102 US History since 1877, or PSC 102 U.S. Government I	3
MTH 210 Analytical Geometry & Calculus II	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	
CH271 Foundations of Analytical Chemistry	5
CH306 Inorganic Chemistry	3
CH531 Foundations of Biochemistry	3
PH231 General Physics II	5
Total Hours	16

SOUTHEAST / SIXTH SEMESTER	
CH295 Chemistry Seminar II	2
CH532 Advanced Biochemistry or Electives	2-4
CH563 Advanced Inorganic Chemistry or CH575 Chemical Instrumentation	4-5
Electives (300 level or above)	3-4
Total Hours	12-14

SOUTHEAST / SEVENTH SEMESTER	
CH311 Foundations of Physical Chemistry	4
CH360 Polymer Chemistry	1
CH391 Undergraduate Research	1
CH Electives (300 level or higher)	3-4
Electives (300 level or above)	3-4
Total Hours	12-14

SOUTHEAST / EIGHTH SEMESTER	
CH312 Advanced Physical Chemistry	3
CH313 Physical Chemistry Laboratory	3
CH495 Chemistry Seminar 3	1
CH532 Advanced Biochemistry or Electives	2-4
CH563 Advanced Inorganic Chemistry or CH575 Chemical Instrumentation	4-5
Total Hours	13-15

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.