

East Central College

/Associate of Arts – STEM Pathway to Bachelor of Science – Biology: Microbiology, Cellular and Molecular Biology and Biotechnology

Students are encouraged to complete the Associate of Arts – STEM Pathway Degree (Aa) at East Central College to prepare for a smooth transition to a Bachelor of Science: Microbiology, Cellular and Molecular Biology and Biotechnology at Southeast Missouri State University.

EAST CENTRAL COLLEGE / FIRST SEMESTER	
COL100 Campus Orientation	0
PSC CIVICS	0
COL101 Falcon Seminar: STEM	1
COM101/110 Oral Communication/Public Speaking	3
ENG101 English Composition I	3
CHM111 General Chemistry I	5
MTH170 College Algebra	3
MTH171 Trigonometry	2
<i>Total Hours</i>	17

EAST CENTRAL COLLEGE / SECOND SEMESTER	
EN102 English Composition II	3
HST101/HST102/PSC102 Core 42 Civics Requirement	3
CHM112 General Chemistry II	5
MTH150/MTH190 Statistics/Analytic Geometry and Calculus I	3-5
<i>Total Hours</i>	14-16

EAST CENTRAL COLLEGE / THIRD SEMESTER	
CORE 42 Social Science Requirement	3
CHM205 Organic Chemistry I	5
BIO121 Principles of Biology I	5
CORE 42 Humanities/Fine Arts	3
<i>Total Hours</i>	16

EAST CENTRAL COLLEGE / FOURTH SEMESTER	
CORE 42 Social Science Requirement	3
CORE 42 Humanities/Fine Arts	3
CORE 42 Humanities/Fine Arts	3
BIO122 Principles of Biology II	5
<i>Total Hours</i>	14

SOUTHEAST / FIFTH SEMESTER	
BI283 Genetics	4
BI389 Career Development in Biology	2
CH531 Biochemistry Lecture	3
CH533 Biochemistry Lab	2
Elective	3
<i>Total Hours</i>	14

SOUTHEAST / SIXTH SEMESTER	
BI310 Microbiology or ZO310 Zoology	4
BI245 Lab Methods in Biotechnology	3
Biology Elective	3
Biology Elective	3
Experiential Learning	2
<i>Total Hours</i>	15

SOUTHEAST / SEVENTH SEMESTER	
Biology Elective	3
Biology Elective	3
Elective	3
Elective	3
Elective	3
<i>Total Hours</i>	15

SOUTHEAST / EIGHTH SEMESTER	
Biology Elective	3
Biology Elective	3
Elective	3
Elective	3
Elective	3
<i>Total Hours</i>	15

East Central College and Southeast are transfer partners with the Transfer Mentor Program. Learn more and join at semo.edu/transfmentor

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.