

# East Central College — Missouri S&T

## Biological Sciences BA

Transfer Guide Effective as of Fall 2026

Students are not required to complete all courses on this guide before transferring to Missouri S&T.

### East Central College

### Missouri S&T

#### Communication Skills

Take all courses.

ENG 101	English Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ENG 102 or ENG 104 or COM 110	English Composition II or Technical Writing or Public Speaking	3	ENGLISH 1160 or ENGLISH 3560 or SPMS 1185	Writing and Research or Technical Writing or Principles of Speech <small>Applies to degree as Gen Ed Communication requirement.</small>	3
Foreign Language	Foreign Language <small>3 semesters of same language OR 2 semesters of each of two different languages</small>	12	Foreign Language	Foreign Language <small>3 semesters of same language OR 2 semesters of each of two different languages</small>	12
Total Hours			18		

#### Major Requirements

Take all courses.

BIO 111 or BIO 121 BIO 122	General Biology and Lab or Principles of Biology and Lab Principles of Biology II and Lab	5	BIO SCI 1113, 1219 or BIO SCI 1213, 1219 BIO SCI 1223, 1229	General Biology and Lab or Principles of Biology and Lab Biodiversity and Lab	4
CHM 111	General Chemistry I and Lab	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHM 112	General Chemistry II and Lab	5	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) <small>*CHEM 1510 is not a degree requirement, transfers as general elective credit.</small>	3
Total Hours			20		
Total Hours			16		

#### Mathematics and Physical Sciences

Select 9 hours to include college algebra or higher math.

MTH 170	College Algebra	3	MATH 1140	College Algebra or higher math	3
PHY 102 or PHY 111	Intro to Astronomy or College Physics I	3	PHYSICS 1505 or PHYSICS 1145	Introductory Astronomy (3) or College Physics (4) or other physics	3-4
GEO 101	Intro to Physical Geology	3	GEOLOGY 1110	Physical and Environmental Geology or other geology	3
Physics or Geology	Other physics or geology.	3	Physics or Geology	Other physics or geology.	3
Mathematics	Other mathematics higher than college algebra.	3	Mathematics	Other mathematics higher than college algebra.	3
Total Hours			9		

#### Humanities

Select 9 hours to include at least one course in each of the following areas: fine arts (art, music, or theatre), philosophy, literature.

ART 101 or MUS 101 or THE 101	Art Appreciation or Music Appreciation or Theatre Appreciation	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Appreciation or Theatre via Video	3
ENG 210 or ENG 211 or ENG 221 or ENG 222 or ENG 124 or Literature	Survey British Lit: Beginnings - 1784 or Survey British Lit: Romantic-Present or Survey American Lit: Beginnings - 1865 or Survey American Lit: 1865-Present or World Literature I Any literature with prerequisite of no more than English Composition I.	3	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or Literature	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature I: Beginnings to The Renaissance or Any literature with prerequisite of no more than ENGLISH 1120.	3
PHL 101 or PHL 111	Intro to Philosophy or Intro to Logic	3	PHILOS 1105 or PHILOS 1115	Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction	3
Total Hours			9		

#### Social Sciences

Select 9 hours to include 6 hours in two of the following three areas: economics, political science, and psychology.

ECO 102 or ECO 101	Principles of Microeconomics or Principles of Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
PSC 102	US Government I: National and State	3	POL SCI 1200	American Government	3
PSY 101	General Psychology	3	PSYCH 1101	General Psychology	3
Total Hours			9		

#### Additional Degree Requirements

Select additional courses to total up to the maximum transfer credit hours shown below.

EGR 221, 222	C++ Program Engineers and Lab		COMP SCI 1971, 1981	Intro to Programming Method and Lab (3) <small>Satisfies a computer science/statistics requirement. Credit hours apply to degree totals as indicated for each course.</small>	3-4
BIO 110	Ecology	3	BIO SCI 2263	Ecology	3
CHM 205	Organic Chemistry I and Lab	5	CHEM 2210, 2219*	Organic Chemistry I (3) and Lab* (1) <small>*The lab is not a degree requirement, transfers as general elective credit.</small>	4
CHM 206	Organic Chemistry II and Lab	5	CHEM 2220, 2229*	Organic Chemistry II (3) and Lab* (1) <small>*The lab is not a degree requirement, transfers as general elective credit.</small>	4
CIV 201	European Civilization I	3	HISTORY 1100	Early Western Civilization	3
CIV 202	European Civilization II	3	HISTORY 1200	Modern Western Civilization	3

#### Maximum credit hours to be transferred to Missouri S&T degree requirements.

**60**

Missouri S&T residency requirements: The last 60 hours of any Missouri S&T degree must be completed at Missouri S&T.  
Students must receive special permission from Missouri S&T to apply more than the maximum credit hours listed above toward the Missouri S&T degree.  
Students are not required to complete all courses on this guide before transferring to Missouri S&T.