

# East Central College — Missouri S&T

## Biological Sciences BS Transfer Guide

Effective as of Fall 2023

### 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	English Composition II	3	ENGLISH 1160	Writing and Research	3		
COM 110	Public Speaking (Required for AA degree.)	3	SPMS 1185	Principles of Speech (Not required for S&T degree. Transfers as a free elective)	3		
		Total Hours	9			Total Hours	9

#### Social Sciences (Select 9 credit hours to include one course to satisfy state requirement)

HST 101 or HST 102 or CIV 202 or PSC 102	US History to 1877 or US History Since 1877 or European Civilization II or US Government I: National and State (At least one of these courses is required to satisfy state requirement)	3	HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization or American History to 1877 or American History Since 1877 or American Government (At least one of these courses is required to satisfy state requirement)	3
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
PSY 101	General Psychology	3	PSYCH 1101	General Psychology	3
	Other economics, history, political science, sociology, psychology elective.	3		Other economics, history, political science, sociology, psychology elective.	3
Total Hours		9	Total Hours		9

#### Humanities (Select 6 hours)

ART 101	Art Appreciation	3	ART 1180	Art Appreciation	3
MUS 101	Music Appreciation	3	MUSIC 1150	Music Understanding and Appreciation	3
THE 101	Theatre Appreciation	3	THEATRE 1190	Theatre Appreciation	3
ENG 210	Survey British Lit: Beginnings - 1784	3	ENGLISH 1211	British Literature I: The Beginnings to 1800	3
ENG 221	Survey American Lit: Beginnings - 1865	3	ENGLISH 1221	American Literature: 1600 to 1865	3
ENG 222	Survey American Lit: 1865 - Present	3	ENGLISH 1222	American Literature: 1865 to Present	3
ENG 214	Women's Literature	3	ENGLISH 2242	Literature by Women	3
ENG 215	African-American Literature	3	ENGLISH 2245	African American Literature	3
PHL 101	Introduction to Philosophy	3	PHILOS 1105	Intro to Philosophy	3
	Other fine art, literature, or philosophy elective			Other fine art, literature, or philosophy elective	
	Total Hours	6		Total Hours	6

#### Mathematics and Sciences (Take all courses)

BIO 121	Principles of Biology I and Lab	5	BIO SCI 1213, 1219	Principles of Biology and Lab	4
MTH 180 or MTH 190	Survey Calculus or Analytic Geometry & Calculus I	3-5	MATH 1212 or MATH 1214	Survey of Calculus or Calculus I	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 Quantitative Analysis (2)* <small>*Note: CHEM 1510 is not an S&amp;T degree requirement; course will transfer as elective credit.</small>	3
CHM 205	Organic Chemistry I and Lab	5	CHEM 2210, 2219	Organic Chemistry I and Lab	4
CHM 206	Organic Chemistry II and Lab	5	CHEM 2220, 2229	Organic Chemistry II and Lab	4
PHY 111, 112 or PHY 211, 212	College Physics I and Lab or General Physics I and Lab	5	PHYSICS 1145, 1119 or PHYSICS 1135	College Physics I and Lab or Engineering Physics I	5
PHY 121, 122 or PHY 221, 222	College Physics II and Lab or General Physics II and Lab	5	PHYSICS 2145, 2119 or PHYSICS 2135	College Physics II and Lab or Engineering Physics II	5
		Total Hours	38		
				Total Hours	34

#### Additional Degree Requirements

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

BIO 122	Principles of Biology II and Lab	5	BIO SCI 1223, 1229	Biodiversity and Lab	4
BIO 110	Ecology	3	BIO SCI 2263	Ecology	3

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

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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.