East Central College — Missouri S&T

Chemistry BA with Secondary Education Teacher Certification

Transfer Guide Effective as of Fall 2025

East Central College			Missouri S&T			
			ation Skills			
ENG 101	English Composition I	Take all	courses. ENGLISH 1120	Exposition and Argumentation		3
ENG 102 or	English Composition II or		ENGLISH 1160 or	Writing and Research or		
NG 104	Technical Writing	3	ENGLISH 3560	Technical Writing		3
	Total H	lours 6		3	Total Hours	6
		Social S	Sciences			
		Take all	courses.			
IV 201	European Civilization I	3	HISTORY 1100	Early Western Civilization		3
IV 202	European Civilization II	3	HISTORY 1200	Modern Western Civilization		3
CO 102 or	Principles of Microeconomics or		ECON 1100 or	Principles of Microeconomics or		
CO 101 or	Principles of Macroeconomics or	3	ECON 1200 or	Principles of Macroeconomics or		3
SC 102	US Government I: National and State		POL SCI 1200	American Government		
PSY 101	General Psychology	3	PSYCH 1101	General Psychology		3
	Total F				Total Hours	12
		Huma	anities			
		Take all	courses.			
ART 101 or	Art Appreciation or	_	ART 1180 or	Art Appreciation or		
/US 101 or	Music Appreciation or	3	MUSIC 1150 or	Music Appreciation or		3
HE 101	Theatre Appreciation		THEATRE 1190	Theatre via Video		
PHL 101	Introduction to Philosophy	3	PHILOS 1105	Self and World: Intro to Philosophy		3
NG 221 or	Survey American Literature: Beginnings-1865 or	3	ENGLISH 1221 or	American Literature: 1600 to 1865 or		3
NG 222	Survey American Literature:1865-Present		ENGLISH 1222	American Literature 1865 to Present		
	Total F				Total Hours	9
	M		and Sciences			
ATI 400			courses.			
MTH 190	Analytic Geometry & Calculus I	5	MATH 1214	Calculus I		4
MTH 210	Analytic Geometry & Calculus II	5	MATH 1215	Calculus II		4
CHM 111	General Chemistry I and Lab	5	CHEM 1310, 1319	General Chemistry I and Lab	aluaia	5
CHM 112	General Chemistry II and Lab	5	CHEM 1320, 1510	General Chemistry II and Qualitative An	aiysis	5
BIO 111 or	General Biology and Lab* (5) or		BIO SCI 1113, 1219* or	General Biology and Lab*or		
BIO 121	Principles of Biology I and Lab * (5)	3	BIO SCI 1213,* 1219*	Principles of Biology* and Lab* *BIO SCI 1213 will be substituted for 1113. The lab is r	not a degree	3
	· · · · · · · · · · · · · · · · · · ·			requirement, transfers as general elective credit.	iot a degree	
	Total H	lours 23			Total Hours	21
	Addi	tional Degr	ee Requirements			
	Select additional courses to t	otal up to the r	maximum transfer credit ho	urs shown below.		
PHY 102 or	Intro to Astronomy or	3	PHYSICS 1505 or	Introductory Astronomy or		3
SEO 101	Intro to Physical Geology	3	GEOLOGY 1110	Physical and Environmental Geology		3
HY 111, 112 or	College Physics I and Lab (5) or	5	PHYSICS 1145 or	College Physics I or		4
HY 211, 212	General Physics I and Lab (5)	J	PHYSICS 1135	Engineering Physics I		7
IO 110	Ecology	3	BIO SCI 2263	Ecology		3
HM 111	General Chemistry I and Lab	5	CHEM 2210, 2219	Organic Chemistry I and Lab		4
CHM 112	General Chemistry II and Lab	5	CHEM 2220, 2229*	Organic Chemistry II and Lab*		4
	Ostronar Griefinion, in and East		0.12.III 2220, 2220	The lab is not a degree requirement, transfers as generated as the second secon	al elective credit.	·
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	Teach		tion Requirements			
EDU 201 or	Foundations of Education or	Take all	courses.			
DU 214	Multicultural Education	3	EDUC 1074	Education in a Diverse Society		3
DU 190 or	CDA Capstone-Childcare Practicum or					
DU 212	Teaching Professional/Field Experience	3	EDUC 1104	Teacher Field Experience I		1
DU 241	Educational Psychology	3	EDUC 2102 or	Educational Psychology		3
			PSYCH 2300	•		
SY 250	Human Development	3	PSYCH 3310	Developmental Psychology		3
DU 244	Education of the Exceptional Learner	3	EDUC 2310 or	Education of the Exceptional Child or		3
-		J	PSYCH 4310	Psychology of the Exceptional Child		Ŭ
	Total H	lours 15			Total Hours	13

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

62

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.

This transfer guide is published by Missouri University of Science and Technology and is in effect as of Fall 2025. Further information or updates are available from Missouri S&T Transfer Admissions at transfer.mst.edu, transfer@mst.edu, or 800-522-