East Central College — Missouri S&T
Biological Sciences BA with Secondary Education Teacher Certification Transfer Guide Effective as of Fall 2023

	East Central College			Missouri S&T		
	Commu	nication S	Skills (Take all cour	ses)		
ENG 101	English Composition I	3	ENGLISH 1120	Exposition and Argumentation		3
ENG 102 or	English Composition II or		ENGLISH 1160 or	Writing and Research or		
ENG 104	Technical Writing	3	ENGLISH 3560	Technical Writing		3
COM 110	Public Speaking	3	SPMS 1185	Principles of Speech		3
	Total Hours			Total F	lours	9
	Socia	I Science	es (Take all courses	s)		
PSC 102	US Government: National and State	3	POL SCI 1200	American Government	,	3
PSY 101	General Psychology	3	PSYCH 1101	General Psychology		3
	Total Hours			Total H	lours	6
	Hu	manities	(Take all courses)			
ART 101 or	Art Appreciation or		ART 1180 or	Art Appreciation or		
MUS 101 or	Music Appreciation or	3	MUSIC 1150 or	Music Appreciation or		3
THE 101	Theatre Appreciation	J	THEATRE 1190	Theatre via Video		J
PHL 101 or	Intro to Philosophy or		PHILOS 1105 or	Intro to Philosophy or		
PHL 111	Intro to Logic	3	PHILOS 1115	Intro to Logic		3
ENG 210 or	Survey British Lit: Beginnings - 1784 or		ENGLISH 1211 or	British Literature I: The Beginnings to 1800 or	r	
ENG 221 or	Survey American Lit: Beginnings - 1865 or		ENGLISH 1221 or	American Literature: 1600 to 1865 or		
ENG 124 or	World Literature I or	0	ENGLISH 1231 or	World Literature I or		•
ENG 214 or	Women's Literature or	3	ENGLISH 2242 or	Literature by Women or		3
ENG 215	African-American Literature		ENGLISH 2245 or	African American Literature		
	(or other literature elective)			(or other literature elective)		
	Total Hours	9		Total F	lours	9
	Mathemati	cs and So	ciences (Take all co	ourses)		
MTH 110 or	Intermediate Algebra or		MATH 1103 or	Fundamentals of Algebra or		
MTH 183	College Algebra (or higher level math)	3	MATH 1140	College Algebra (or higher math)		3
CHM 111	General Chemistry I and Lab	5	CHEM 1310, 1319	General Chemistry I and Lab		5
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CHM 112	General Chemistry II and Lab	5	CHEM 1320, 1510*	General Chemistry II and Quantitative Analys *Note: CHEM 1510 is not an S&T degree requirement;		3
	•			course will transfer as elective credit.		
BIO 121	Principles of Biology I and Lab	5	BIO SCI 1213, 1219	Principles of Biology and Lab		5
	Total Hours	18		Total F	lours	16
	Addi	tional De	gree Requirements			
	Select additional courses to total					
PHY 111 or	College Physics I or	3	PHYSICS 1145 or	College Physics I or		3
PHY 102	Intro to Astronomy	3	PHYSICS 1505	Astronomy		3
GEO 101	Introduction to Physical Geology	3	GEOLOGY 1110	Physical and Environmental Geology		3
BIO 122	Principles of Biology II and Lab	_	DIO COL 4000 4000	B: P 2 11 1		5
EVR 103		5	BIO SCI 1223, 1229	Biodiversity and Lab		J
EVK 103	Introduction to Environmental Sciences	5 3	BIO SCI 1223, 1229	Intro to Environmental Sciences		3
BIO 110				•		
	Introduction to Environmental Sciences	3	BIO SCI 1173	Intro to Environmental Sciences		3
BIO 110	Introduction to Environmental Sciences Ecology	3	BIO SCI 1173 BIO SCI 2263	Intro to Environmental Sciences Ecology		3
BIO 110 CHM 205	Introduction to Environmental Sciences Ecology Organic Chemistry I and Lab	3 3 5	BIO SCI 1173 BIO SCI 2263 CHEM 2210	Intro to Environmental Sciences Ecology Organic Chemistry I		3 3 4
BIO 110 CHM 205 CHM 206	Introduction to Environmental Sciences Ecology Organic Chemistry I and Lab Organic Chemistry II and Lab	3 3 5 5	BIO SCI 1173 BIO SCI 2263 CHEM 2210 CHEM 2220	Intro to Environmental Sciences Ecology Organic Chemistry I Organic Chemistry II		3 3 4 4
BIO 110 CHM 205 CHM 206 CIV 201	Introduction to Environmental Sciences Ecology Organic Chemistry I and Lab Organic Chemistry II and Lab European Civilization I	3 3 5 5 3	BIO SCI 1173 BIO SCI 2263 CHEM 2210 CHEM 2220 HISTORY 1100	Intro to Environmental Sciences Ecology Organic Chemistry I Organic Chemistry II Early Western Civilization		3 3 4 4 3
BIO 110 CHM 205 CHM 206 CIV 201 CIV 202	Introduction to Environmental Sciences Ecology Organic Chemistry I and Lab Organic Chemistry II and Lab European Civilization I European Civilization II	3 3 5 5 3	BIO SCI 1173 BIO SCI 2263 CHEM 2210 CHEM 2220 HISTORY 1100 HISTORY 1200	Intro to Environmental Sciences Ecology Organic Chemistry I Organic Chemistry II Early Western Civilization Modern Western Civilization		3 3 4 4 3
BIO 110 CHM 205 CHM 206 CIV 201 CIV 202 MTH 150 or	Introduction to Environmental Sciences Ecology Organic Chemistry I and Lab Organic Chemistry II and Lab European Civilization I European Civilization II Statistics or	3 3 5 5 3	BIO SCI 1173 BIO SCI 2263 CHEM 2210 CHEM 2220 HISTORY 1100 HISTORY 1200 STAT 1115 or	Intro to Environmental Sciences Ecology Organic Chemistry I Organic Chemistry II Early Western Civilization Modern Western Civilization Statistics for Social Sciences I or		3 3 4 4 3
BIO 110 CHM 205 CHM 206 CIV 201 CIV 202 MTH 150 or BUS 210 or	Introduction to Environmental Sciences Ecology Organic Chemistry I and Lab Organic Chemistry II and Lab European Civilization I European Civilization II Statistics or Basic Business Statistics or	3 3 5 5 3 3	BIO SCI 1173 BIO SCI 2263 CHEM 2210 CHEM 2220 HISTORY 1100 HISTORY 1200 STAT 1115 or STAT 1115 or	Intro to Environmental Sciences Ecology Organic Chemistry I Organic Chemistry II Early Western Civilization Modern Western Civilization Statistics for Social Sciences I or Statistics for Social Sciences I or		3 3 4 4 3 3
BIO 110 CHM 205 CHM 206 CIV 201 CIV 202 MTH 150 or BUS 210 or MTH 242 or	Introduction to Environmental Sciences Ecology Organic Chemistry I and Lab Organic Chemistry II and Lab European Civilization I European Civilization II Statistics or Basic Business Statistics or Engineering Statistics or	3 3 5 5 3	BIO SCI 1173 BIO SCI 2263 CHEM 2210 CHEM 2220 HISTORY 1100 HISTORY 1200 STAT 1115 or STAT 3115 or	Intro to Environmental Sciences Ecology Organic Chemistry I Organic Chemistry II Early Western Civilization Modern Western Civilization Statistics for Social Sciences I or Statistics for Social Sciences I or Engineering Statistics or		3 3 4 4 3
BIO 110 CHM 205 CHM 206 CIV 201 CIV 202 MTH 150 or BUS 210 or MTH 242 or CIS 143 or	Introduction to Environmental Sciences Ecology Organic Chemistry I and Lab Organic Chemistry II and Lab European Civilization I European Civilization II Statistics or Basic Business Statistics or Engineering Statistics or Implementing Info SysUser Perspective or C++ Program Engineers and Lab (4) or Data Structures	3 3 5 5 3 3	BIO SCI 1173 BIO SCI 2263 CHEM 2210 CHEM 2220 HISTORY 1100 HISTORY 1200 STAT 1115 or STAT 3115 or IST 1551 or	Intro to Environmental Sciences Ecology Organic Chemistry I Organic Chemistry II Early Western Civilization Modern Western Civilization Statistics for Social Sciences I or Statistics for Social Sciences I or Engineering Statistics or Implementing Infor Sys: User Persp or Computational Problem Solving (Or other statistics or computer class. Statistics preferred; com	puter	3 3 4 4 3 3
BIO 110 CHM 205 CHM 206 CIV 201 CIV 202 MTH 150 or BUS 210 or MTH 242 or CIS 143 or EGR 221, 222 or	Introduction to Environmental Sciences Ecology Organic Chemistry I and Lab Organic Chemistry II and Lab European Civilization I European Civilization II Statistics or Basic Business Statistics or Engineering Statistics or Implementing Info SysUser Perspective or C++ Program Engineers and Lab (4) or Data Structures (Or other statistics or computer class. Statistics preferred;	3 3 5 5 3 3	BIO SCI 1173 BIO SCI 2263 CHEM 2210 CHEM 2220 HISTORY 1100 HISTORY 1200 STAT 1115 or STAT 1115 or STAT 3115 or IST 1551 or CS 1971,1981 or	Intro to Environmental Sciences Ecology Organic Chemistry I Organic Chemistry II Early Western Civilization Modern Western Civilization Statistics for Social Sciences I or Statistics for Social Sciences I or Engineering Statistics or Implementing Infor Sys: User Persp or Computational Problem Solving	puter	3 3 4 4 3 3
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BIO 110 CHM 205 CHM 206 CIV 201 CIV 202 MTH 150 or BUS 210 or MTH 242 or CIS 143 or EGR 221, 222 or EGR 251	Introduction to Environmental Sciences Ecology Organic Chemistry I and Lab Organic Chemistry II and Lab European Civilization I European Civilization II Statistics or Basic Business Statistics or Engineering Statistics or Implementing Info SysUser Perspective or C++ Program Engineers and Lab (4) or Data Structures (Or other statistics or computer class. Statistics preferred; computer class is acceptable.)	3 3 5 5 3 3 3	BIO SCI 1173 BIO SCI 2263 CHEM 2210 CHEM 2220 HISTORY 1100 HISTORY 1200 STAT 1115 or STAT 3115 or IST 1551 or CS 1971,1981 or CS 1500	Intro to Environmental Sciences Ecology Organic Chemistry I Organic Chemistry II Early Western Civilization Modern Western Civilization Statistics for Social Sciences I or Statistics for Social Sciences I or Engineering Statistics or Implementing Infor Sys: User Persp or Computational Problem Solving (Or other statistics or computer class. Statistics preferred; com class is acceptable.)	puter	3 3 4 4 3 3
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BIO 110 CHM 205 CHM 206 CIV 201 CIV 202 MTH 150 or BUS 210 or MTH 242 or CIS 143 or EGR 221, 222 or EGR 251  EDU 201 or EDU 214 EDU 241	Introduction to Environmental Sciences Ecology Organic Chemistry I and Lab Organic Chemistry II and Lab European Civilization I European Civilization II Statistics or Basic Business Statistics or Engineering Statistics or Implementing Info SysUser Perspective or C++ Program Engineers and Lab (4) or Data Structures (Or other statistics or computer class. Statistics preferred; computer class is acceptable.)  Teacher Certific Foundations of Education or Multicultural Education Educational Psychology	3 3 5 5 3 3 3-4	BIO SCI 1173 BIO SCI 2263 CHEM 2210 CHEM 2220 HISTORY 1100 HISTORY 1200 STAT 1115 or STAT 1115 or IST 1551 or CS 1971,1981 or CS 1500  Equirements (Take a	Intro to Environmental Sciences Ecology Organic Chemistry I Organic Chemistry II Early Western Civilization Modern Western Civilization Statistics for Social Sciences I or Statistics for Social Sciences I or Engineering Statistics or Implementing Infor Sys: User Persp or Computational Problem Solving (Or other statistics or computer class. Statistics preferred; com class is acceptable.)  Perspectives in Education Educational Psychology	puter	3 3 4 4 3 3 3 3 3
BIO 110 CHM 205 CHM 206 CIV 201 CIV 202 MTH 150 or BUS 210 or MTH 242 or CIS 143 or EGR 221, 222 or EGR 251  EDU 201 or EDU 214 EDU 241 PSY 250	Introduction to Environmental Sciences Ecology Organic Chemistry I and Lab Organic Chemistry II and Lab European Civilization I European Civilization II Statistics or Basic Business Statistics or Engineering Statistics or Implementing Info SysUser Perspective or C++ Program Engineers and Lab (4) or Data Structures (Or other statistics or computer class. Statistics preferred; computer class is acceptable.)  Teacher Certific Foundations of Education or Multicultural Education Educational Psychology Human Development	3 5 5 3 3 3-4	BIO SCI 1173 BIO SCI 2263 CHEM 2210 CHEM 2220 HISTORY 1100 HISTORY 1200 STAT 1115 or STAT 1115 or IST 1551 or CS 1971,1981 or CS 1500  Equirements (Take a EDUC 1040 PSYCH 2300 (EDUC 2102) PSYCH 3310	Intro to Environmental Sciences Ecology Organic Chemistry I Organic Chemistry II Early Western Civilization Modern Western Civilization Statistics for Social Sciences I or Statistics for Social Sciences I or Engineering Statistics or Implementing Infor Sys: User Persp or Computational Problem Solving (Or other statistics or computer class. Statistics preferred; com class is acceptable.)  Perspectives in Education  Educational Psychology  Developmental Psychology	puter	3 3 4 4 4 3 3 3 3
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BIO 110 CHM 205 CHM 206 CIV 201 CIV 202 MTH 150 or BUS 210 or MTH 242 or CIS 143 or EGR 221, 222 or EGR 251  EDU 201 or EDU 214 EDU 241 PSY 250	Introduction to Environmental Sciences Ecology Organic Chemistry I and Lab Organic Chemistry II and Lab European Civilization I European Civilization II Statistics or Basic Business Statistics or Engineering Statistics or Implementing Info SysUser Perspective or C++ Program Engineers and Lab (4) or Data Structures (Or other statistics or computer class. Statistics preferred; computer class is acceptable.)  Teacher Certific Foundations of Education or Multicultural Education Educational Psychology Human Development	3 5 5 3 3 3-4	BIO SCI 1173 BIO SCI 2263 CHEM 2210 CHEM 2220 HISTORY 1100 HISTORY 1200 STAT 1115 or STAT 1115 or IST 1551 or CS 1971,1981 or CS 1500  Equirements (Take a EDUC 1040 PSYCH 2300 (EDUC 2102) PSYCH 3310	Intro to Environmental Sciences Ecology Organic Chemistry I Organic Chemistry II Early Western Civilization Modern Western Civilization Statistics for Social Sciences I or Statistics for Social Sciences I or Engineering Statistics or Implementing Infor Sys: User Persp or Computational Problem Solving (Or other statistics or computer class. Statistics preferred; com class is acceptable.)  Perspectives in Education  Educational Psychology  Developmental Psychology	puter	3 3 4 4 4 3 3 3 3
BIO 110 CHM 205 CHM 206 CIV 201 CIV 202 MTH 150 or BUS 210 or MTH 242 or CIS 143 or EGR 221, 222 or EGR 251  EDU 201 or EDU 214 EDU 241 PSY 250 EDU 244	Introduction to Environmental Sciences Ecology Organic Chemistry I and Lab Organic Chemistry II and Lab European Civilization I European Civilization II Statistics or Basic Business Statistics or Engineering Statistics or Implementing Info SysUser Perspective or C++ Program Engineers and Lab (4) or Data Structures (Or other statistics or computer class. Statistics preferred; computer class is acceptable.)  Teacher Certific Foundations of Education or Multicultural Education Educational Psychology Human Development	3 5 5 3 3 3 3 3 3	BIO SCI 1173 BIO SCI 2263 CHEM 2210 CHEM 2220 HISTORY 1100 HISTORY 1200 STAT 1115 or STAT 1115 or IST 1551 or CS 1971,1981 or CS 1500  Equirements (Take a EDUC 1040 PSYCH 2300 (EDUC 2102) PSYCH 3310 PSYCH 4310	Intro to Environmental Sciences Ecology Organic Chemistry I Organic Chemistry II Early Western Civilization Modern Western Civilization Statistics for Social Sciences I or Statistics for Social Sciences I or Engineering Statistics or Implementing Infor Sys: User Persp or Computational Problem Solving (Or other statistics or computer class. Statistics preferred; com class is acceptable.)  Perspectives in Education  Educational Psychology Developmental Psychology Psychology of the Exceptional Child	puter	3 3 4 4 4 3 3 3 3
BIO 110 CHM 205 CHM 206 CIV 201 CIV 202 MTH 150 or BUS 210 or MTH 242 or CIS 143 or EGR 221, 222 or EGR 251  EDU 201 or EDU 214 EDU 241 PSY 250 EDU 244  Professional Req	Introduction to Environmental Sciences Ecology Organic Chemistry I and Lab Organic Chemistry II and Lab European Civilization I European Civilization II Statistics or Basic Business Statistics or Engineering Statistics or Implementing Info SysUser Perspective or C++ Program Engineers and Lab (4) or Data Structures (Or other statistics or computer class. Statistics preferred; computer class is acceptable.)  Teacher Certific Foundations of Education or Multicultural Education Educational Psychology Human Development Education of the Exceptional Learner	3 5 5 3 3 3 3 3 3	BIO SCI 1173 BIO SCI 2263 CHEM 2210 CHEM 2220 HISTORY 1100 HISTORY 1200 STAT 1115 or STAT 1115 or IST 1551 or CS 1971,1981 or CS 1500  Equirements (Take a EDUC 1040 PSYCH 2300 (EDUC 2102) PSYCH 3310 PSYCH 4310	Intro to Environmental Sciences Ecology Organic Chemistry I Organic Chemistry II Early Western Civilization Modern Western Civilization Statistics for Social Sciences I or Statistics for Social Sciences I or Engineering Statistics or Implementing Infor Sys: User Persp or Computational Problem Solving (Or other statistics or computer class. Statistics preferred; com class is acceptable.)  Perspectives in Education  Educational Psychology Developmental Psychology Psychology of the Exceptional Child	puter	3 3 4 4 4 3 3 3 3
BIO 110 CHM 205 CHM 206 CIV 201 CIV 202 MTH 150 or BUS 210 or MTH 242 or CIS 143 or EGR 221, 222 or EGR 251  EDU 201 or EDU 214 EDU 241 PSY 250 EDU 244  Professional Req	Introduction to Environmental Sciences Ecology Organic Chemistry I and Lab Organic Chemistry II and Lab European Civilization I European Civilization II Statistics or Basic Business Statistics or Engineering Statistics or Implementing Info SysUser Perspective or C++ Program Engineers and Lab (4) or Data Structures (Or other statistics or computer class. Statistics preferred; computer class is acceptable.)  Teacher Certific Foundations of Education or Multicultural Education Educational Psychology Human Development Education of the Exceptional Learner Juirements for Teacher Education Program: Purcation.mst.edu/secondaryeducation/.	3 3 5 5 3 3 3 3-4	BIO SCI 1173 BIO SCI 2263 CHEM 2210 CHEM 2220 HISTORY 1100 HISTORY 1200 STAT 1115 or STAT 1115 or IST 1551 or CS 1971,1981 or CS 1500  EQUIREMENTS (Take a EDUC 1040 PSYCH 2300 (EDUC 2102) PSYCH 3310 PSYCH 4310  all program requirements	Intro to Environmental Sciences Ecology Organic Chemistry I Organic Chemistry II Early Western Civilization Modern Western Civilization Statistics for Social Sciences I or Statistics for Social Sciences I or Engineering Statistics or Implementing Infor Sys: User Persp or Computational Problem Solving (Or other statistics or computer class. Statistics preferred; com class is acceptable.)  Perspectives in Education  Educational Psychology Developmental Psychology Psychology of the Exceptional Child	puter	3 3 4 4 4 3 3 3 3
BIO 110 CHM 205 CHM 206 CIV 201 CIV 202 MTH 150 or BUS 210 or MTH 242 or CIS 143 or EGR 221, 222 or EGR 251  EDU 201 or EDU 214 EDU 241 PSY 250 EDU 244  Professional Req	Introduction to Environmental Sciences Ecology Organic Chemistry I and Lab Organic Chemistry II and Lab European Civilization I European Civilization II Statistics or Basic Business Statistics or Engineering Statistics or Implementing Info SysUser Perspective or C++ Program Engineers and Lab (4) or Data Structures (Or other statistics or computer class. Statistics preferred; computer class is acceptable.)  Teacher Certific Foundations of Education or Multicultural Education Educational Psychology Human Development Education of the Exceptional Learner	3 3 5 5 3 3 3 3-4	BIO SCI 1173 BIO SCI 2263 CHEM 2210 CHEM 2220 HISTORY 1100 HISTORY 1200 STAT 1115 or STAT 1115 or IST 1551 or CS 1971,1981 or CS 1500  EQUIREMENTS (Take a EDUC 1040 PSYCH 2300 (EDUC 2102) PSYCH 3310 PSYCH 4310  all program requirements	Intro to Environmental Sciences Ecology Organic Chemistry I Organic Chemistry II Early Western Civilization Modern Western Civilization Statistics for Social Sciences I or Statistics for Social Sciences I or Engineering Statistics or Implementing Infor Sys: User Persp or Computational Problem Solving (Or other statistics or computer class. Statistics preferred; com class is acceptable.)  Perspectives in Education  Educational Psychology Developmental Psychology Psychology of the Exceptional Child	puter	3 3 4 4 4 3 3 3 3

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 2023. Further information or updates are available from Missouri S&T Transfer Admissions at transfer.mst.edu,