East Central College — Missouri S&T
Biological Sciences BA with Secondary Education Teacher Certification
Transfer Guide Effective as of Fall 2025

	East Central College				<u>Missouri S&amp;T</u>	
		Col		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	
ENG 104	Technical Writing		3	ENGLISH 3560	Technical Writing	3
COM 110	Public Speaking		3	SPMS 1185	Principles of Speech	3
		Total Hours	9		Total Hours	9
				ciences		
PSC 102	LIC Covernments National and Ctata		Take all	POL SCI 1200	American Government	3
PSY 102	US Government: National and State General Psychology		3	PSYCH 1101	General Psychology	3
101101	General 1 Sychology	Total Hours	6	1010111101	Total Hours	
			Huma	ınities		
	Select 9 hours to include at least one cou	irse in each of			nusic, or theatre), philosophy, literature.	
ART 101 or	Art Appreciation or			ART 1180 or	Art Appreciation or	
MUS 101 or	Music Appreciation or			MUSIC 1150 or	Music Appreciation or	
THE 101	Theatre Appreciation or other fine art		3	THEATRE 1190	Theatre via Video or other fine art	3
PHL 101 or	Intro to Philosophy or Intro to Logic		3	PHILOS 1105 or PHILOS 1115	Self and World: Intro to Philosophy or	3
PHL 111	or other philosophy		3	PHILOS 1115	Logic and Reasoning: An Introduction or other philosophy	3
ENG 210 or	Survey British Lit: Beginnings - 1784 or			ENGLISH 1211 or	British Literature I: The Beginnings to 1800 or	
ENG 221 or	Survey American Lit: Beginnings - 1865 or		_	ENGLISH 1221 or	American Literature: 1600 to 1865 or	_
ENG 124 or ENG 214 or	World Literature I or Women's Literature or		3	ENGLISH 1231 or ENGLISH 2242 or	World Literature I or	3
ENG 214 01	African-American Literature or other literature			ENGLISH 2245 or	Literature by Women or African American Literature or other literature	
2.10 2.10	, in loan , in one an Energial of the moral in	Total Hours	9	211021011221001	Total Hours	9
		Mathe	ematics	and Sciences		
			Take all	courses.		
MTH 110	Intermediate Algebra or higher math		3	MATH 1103	Fundamentals of Algebra or higher math	3
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) *CHEM 1510 is not an S&T degree reguirement. Will transfer as general credit.	3
BIO 111 or	General Biology Lecture and Lab or			BIO SCI 1113, 1219 or	General Biology and Lab or	
BIO 121	Principles of Biology I and Lab		5	BIO SCI 1213*, 1219	Principles of Biology and Lab	4
		Total Hours	18	,	Total Hours	15
		Addition	al Degre	ee Requirements		
	Select additional co	urses to total ι	ıp to the n	naximum transfer credit ho	ours shown below.	
PHY 111 or PHY 102	College Physics I or Intro to Astronomy		3	PHYSICS 1145 or PHYSICS 1505	College Physics I (4) or Astronomy (3) Satisfies a 3-hour science requirement. Any additional credits apply to degree totals as general elective credit.	3-4
GEO 101	Introduction to Physical Geology		3	GEOLOGY 1110	Physical and Environmental Geology	3
BIO 122	Principles of Biology II and Lab		5	BIO SCI 1223, 1229	Biodiversity and Lab	5
EVR 103	Introduction to Environmental Sciences		3	BIO SCI 1173	Intro to Environmental Sciences	3
BIO 110 CHM 205	Ecology Organic Chemistry I and Lab		3 5	BIO SCI 2263 CHEM 2210	Ecology Organic Chemistry I	3
CHM 206	Organic Chemistry II and Lab		5	CHEM 2220	Organic Chemistry II	3
CIV 201	European Civilization I		3	HISTORY 1100	Early Western Civilization	3
CIV 202	European Civilization II		3	HISTORY 1200	Modern Western Civilization	3
MTH 150 or	Statistics or			STAT 1115 or	Statistics for Social Sciences I or	
D110 010	Basic Business Statistics or			STAT 1115 or		
BUS 210 or					Statistics for Social Sciences I or	
MTH 242 or	Engineering Statistics or	C++		STAT 3115 or	Engineering Statistics or	
		C++	3-4		Engineering Statistics or Implementing Infor Sys: User Persp or	3
MTH 242 or CIS 143 or	Engineering Statistics or Implementing Info SysUser Perspective or Program Engineers and Lab (4) or Data Structures		3-4	STAT 3115 or IST 1551 or	Engineering Statistics or	3
MTH 242 or CIS 143 or EGR 221, 222 or	Engineering Statistics or Implementing Info SysUser Perspective or Program Engineers and Lab (4) or		3-4	STAT 3115 or IST 1551 or CS 1971,1981 or	Engineering Statistics or Implementing Infor Sys: User Persp or Computational Problem Solving Or other statistics or computer class. Statistics preferred; computer class is acceptable. Satisfies a 3-hour computer science/statistics requirement. Any	3
MTH 242 or CIS 143 or EGR 221, 222 or	Engineering Statistics or Implementing Info SysUser Perspective or Program Engineers and Lab (4) or Data Structures Or other statistics or computer class. Statistics preferred; com		3-4	STAT 3115 or IST 1551 or CS 1971,1981 or	Engineering Statistics or Implementing Infor Sys: User Persp or Computational Problem Solving Or other statistics or computer class. Statistics preferred; computer class is	3
MTH 242 or CIS 143 or EGR 221, 222 or	Engineering Statistics or Implementing Info SysUser Perspective or Program Engineers and Lab (4) or Data Structures Or other statistics or computer class. Statistics preferred; com	puter class is		STAT 3115 or IST 1551 or CS 1971,1981 or CS 1500	Engineering Statistics or Implementing Infor Sys: User Persp or Computational Problem Solving Or other statistics or computer class. Statistics preferred; computer class is acceptable. Satisfies a 3-hour computer science/statistics requirement. Any	3
MTH 242 or CIS 143 or EGR 221, 222 or	Engineering Statistics or Implementing Info SysUser Perspective or Program Engineers and Lab (4) or Data Structures Or other statistics or computer class. Statistics preferred; com	puter class is	ertificat	STAT 3115 or IST 1551 or CS 1971,1981 or CS 1500	Engineering Statistics or Implementing Infor Sys: User Persp or Computational Problem Solving Or other statistics or computer class. Statistics preferred; computer class is acceptable. Satisfies a 3-hour computer science/statistics requirement. Any	3
MTH 242 or CIS 143 or EGR 221, 222 or EGR 251	Engineering Statistics or Implementing Info SysUser Perspective or Program Engineers and Lab (4) or Data Structures Or other statistics or computer class. Statistics preferred; com acceptable.	puter class is	ertificat	STAT 3115 or IST 1551 or CS 1971,1981 or CS 1500 ion Requirements courses.	Engineering Statistics or Implementing Infor Sys: User Persp or Computational Problem Solving Or other statistics or computer class. Statistics preferred; computer class is acceptable. Satisfies a 3-hour computer science/statistics requirement. Any additional credit hours apply to degree totals as general elective credit.	
MTH 242 or CIS 143 or EGR 221, 222 or	Engineering Statistics or Implementing Info SysUser Perspective or Program Engineers and Lab (4) or Data Structures Or other statistics or computer class. Statistics preferred; com	puter class is	ertificat	STAT 3115 or IST 1551 or CS 1971,1981 or CS 1500	Engineering Statistics or Implementing Infor Sys: User Persp or Computational Problem Solving Or other statistics or computer class. Statistics preferred; computer class is acceptable. Satisfies a 3-hour computer science/statistics requirement. Any	2
MTH 242 or CIS 143 or EGR 221, 222 or EGR 251 EDU 201 or EDU 214 EDU 190 or	Engineering Statistics or Implementing Info SysUser Perspective or Program Engineers and Lab (4) or Data Structures Or other statistics or computer class. Statistics preferred; com acceptable.  Foundations of Education or Multicultural Education CDA Capstone-Childcare Practicum or	puter class is	ertificat Take all	STAT 3115 or IST 1551 or CS 1971,1981 or CS 1500 ion Requirements courses.	Engineering Statistics or Implementing Infor Sys: User Persp or Computational Problem Solving Or other statistics or computer class. Statistics preferred; computer class is acceptable. Satisfies a 3-hour computer science/statistics requirement. Any additional credit hours apply to degree totals as general elective credit.	2
MTH 242 or CIS 143 or EGR 221, 222 or EGR 251 EDU 201 or EDU 214	Engineering Statistics or Implementing Info SysUser Perspective or Program Engineers and Lab (4) or Data Structures Or other statistics or computer class. Statistics preferred; comacceptable.  Foundations of Education or Multicultural Education	puter class is	ertificat	STAT 3115 or IST 1551 or CS 1971,1981 or CS 1500 ion Requirements courses. EDUC 1074 EDUC 1104	Engineering Statistics or Implementing Infor Sys: User Persp or Computational Problem Solving Or other statistics or computer class. Statistics preferred; computer class is acceptable. Satisfies a 3-hour computer science/statistics requirement. Any additional credit hours apply to degree totals as general elective credit.	
MTH 242 or CIS 143 or EGR 221, 222 or EGR 251 EDU 201 or EDU 214 EDU 190 or	Engineering Statistics or Implementing Info SysUser Perspective or Program Engineers and Lab (4) or Data Structures Or other statistics or computer class. Statistics preferred; com acceptable.  Foundations of Education or Multicultural Education CDA Capstone-Childcare Practicum or	puter class is	ertificat Take all	STAT 3115 or IST 1551 or CS 1971,1981 or CS 1500 ion Requirements courses. EDUC 1074 EDUC 1104 EDUC 2102 or	Engineering Statistics or Implementing Infor Sys: User Persp or Computational Problem Solving Or other statistics or computer class. Statistics preferred; computer class is acceptable. Satisfies a 3-hour computer science/statistics requirement. Any additional credit hours apply to degree totals as general elective credit.	2
MTH 242 or CIS 143 or EGR 221, 222 or EGR 251 EDU 201 or EDU 214 EDU 190 or EDU 212	Engineering Statistics or Implementing Info SysUser Perspective or Program Engineers and Lab (4) or Data Structures Or other statistics or computer class. Statistics preferred; com acceptable.  Foundations of Education or Multicultural Education CDA Capstone-Childcare Practicum or Teaching Professional/Field Experience	puter class is	Sertificat Take all 3	STAT 3115 or IST 1551 or CS 1971,1981 or CS 1500 ion Requirements courses. EDUC 1074 EDUC 1104	Engineering Statistics or Implementing Infor Sys: User Persp or Computational Problem Solving Or other statistics or computer class. Statistics preferred; computer class is acceptable. Satisfies a 3-hour computer science/statistics requirement. Any additional credit hours apply to degree totals as general elective credit.  Education in a Diverse Society  Teacher Field Experience I	2
MTH 242 or CIS 143 or EGR 221, 222 or EGR 251 EDU 201 or EDU 214 EDU 190 or EDU 212 EDU 241 PSY 250	Engineering Statistics or Implementing Info SysUser Perspective or Program Engineers and Lab (4) or Data Structures Or other statistics or computer class. Statistics preferred; comacceptable.  Foundations of Education or Multicultural Education CDA Capstone-Childcare Practicum or Teaching Professional/Field Experience Educational Psychology Human Development	puter class is	Take all and a second a second and a second	STAT 3115 or IST 1551 or CS 1971,1981 or CS 1500 ion Requirements courses. EDUC 1074 EDUC 1104 EDUC 2102 or PSYCH 2300 PSYCH 2300 PSYCH 3310 EDUC 2310 or	Engineering Statistics or Implementing Infor Sys: User Persp or Computational Problem Solving Or other statistics or computer class. Statistics preferred; computer class is acceptable. Satisfies a 3-hour computer science/statistics requirement. Any additional credit hours apply to degree totals as general elective credit.  Education in a Diverse Society  Teacher Field Experience I  Educational Psychology  Developmental Psychology  Education of the Exceptional Child or	2 1 3 3
MTH 242 or CIS 143 or EGR 221, 222 or EGR 251 EDU 201 or EDU 214 EDU 190 or EDU 212 EDU 241	Engineering Statistics or Implementing Info SysUser Perspective or Program Engineers and Lab (4) or Data Structures Or other statistics or computer class. Statistics preferred; comacceptable.  Foundations of Education or Multicultural Education CDA Capstone-Childcare Practicum or Teaching Professional/Field Experience Educational Psychology	puter class is  Teacher C	Sertificat Take all 3 3 3 3 3 3	STAT 3115 or IST 1551 or CS 1971,1981 or CS 1500 ion Requirements courses. EDUC 1074 EDUC 1104 EDUC 2102 or PSYCH 2300 PSYCH 3310	Engineering Statistics or Implementing Infor Sys: User Persp or Computational Problem Solving Or other statistics or computer class. Statistics preferred; computer class is acceptable. Satisfies a 3-hour computer science/statistics requirement. Any additional credit hours apply to degree totals as general elective credit.  Education in a Diverse Society Teacher Field Experience I  Educational Psychology Developmental Psychology Education of the Exceptional Child or Psychology of the Exceptional Child	2 1 3 3 3
MTH 242 or CIS 143 or EGR 221, 222 or EGR 251 EDU 201 or EDU 214 EDU 190 or EDU 212 EDU 241 PSY 250	Engineering Statistics or Implementing Info SysUser Perspective or Program Engineers and Lab (4) or Data Structures Or other statistics or computer class. Statistics preferred; comacceptable.  Foundations of Education or Multicultural Education CDA Capstone-Childcare Practicum or Teaching Professional/Field Experience Educational Psychology Human Development	puter class is	Take all and a second a second and a second	STAT 3115 or IST 1551 or CS 1971,1981 or CS 1500 ion Requirements courses. EDUC 1074 EDUC 1104 EDUC 2102 or PSYCH 2300 PSYCH 2300 PSYCH 3310 EDUC 2310 or	Engineering Statistics or Implementing Infor Sys: User Persp or Computational Problem Solving Or other statistics or computer class. Statistics preferred; computer class is acceptable. Satisfies a 3-hour computer science/statistics requirement. Any additional credit hours apply to degree totals as general elective credit.  Education in a Diverse Society  Teacher Field Experience I  Educational Psychology  Developmental Psychology  Education of the Exceptional Child or	2 1 3 3 3
MTH 242 or CIS 143 or EGR 221, 222 or EGR 251 EDU 201 or EDU 214 EDU 190 or EDU 212 EDU 241 PSY 250 EDU 244	Engineering Statistics or Implementing Info SysUser Perspective or Program Engineers and Lab (4) or Data Structures Or other statistics or computer class. Statistics preferred; comacceptable.  Foundations of Education or Multicultural Education CDA Capstone-Childcare Practicum or Teaching Professional/Field Experience Educational Psychology Human Development	Teacher C	Take all 3 3 3 3 3 3 3 15	STAT 3115 or IST 1551 or CS 1971,1981 or CS 1500 ion Requirements courses. EDUC 1074 EDUC 1104 EDUC 2102 or PSYCH 2300 PSYCH 3310 EDUC 2310 or PSYCH 4310	Engineering Statistics or Implementing Infor Sys: User Persp or Computational Problem Solving Or other statistics or computer class. Statistics preferred; computer class is acceptable. Satisfies a 3-hour computer science/statistics requirement. Any additional credit hours apply to degree totals as general elective credit.  Education in a Diverse Society  Teacher Field Experience I  Educational Psychology  Developmental Psychology  Education of the Exceptional Child or Psychology of the Exceptional Child Total Hours	2 1 3 3 3
MTH 242 or CIS 143 or EGR 221, 222 or EGR 251 EDU 201 or EDU 214 EDU 190 or EDU 212 EDU 241 PSY 250 EDU 244	Engineering Statistics or Implementing Info SysUser Perspective or Program Engineers and Lab (4) or Data Structures Or other statistics or computer class. Statistics preferred; comacceptable.  Foundations of Education or Multicultural Education CDA Capstone-Childcare Practicum or Teaching Professional/Field Experience Educational Psychology Human Development Education of the Exceptional Learner	Teacher C  Total Hours e view all prog	Take all and a second a second and a second	STAT 3115 or IST 1551 or CS 1971,1981 or CS 1500  ion Requirements courses.  EDUC 1074  EDUC 1104  EDUC 2102 or PSYCH 2300 PSYCH 3310 EDUC 2310 or PSYCH 4310  rements at https://teachere	Engineering Statistics or Implementing Infor Sys: User Persp or Computational Problem Solving Or other statistics or computer class. Statistics preferred; computer class is acceptable. Satisfies a 3-hour computer science/statistics requirement. Any additional credit hours apply to degree totals as general elective credit.  Education in a Diverse Society  Teacher Field Experience I  Educational Psychology Developmental Psychology Education of the Exceptional Child or Psychology of the Exceptional Child  Total Hours  education.mst.edu/secondaryeducation/.	2 1 3 3 3 12
MTH 242 or CIS 143 or EGR 221, 222 or EGR 251 EDU 201 or EDU 214 EDU 190 or EDU 212 EDU 241 PSY 250 EDU 244 Professional Require	Engineering Statistics or Implementing Info SysUser Perspective or Program Engineers and Lab (4) or Data Structures Or other statistics or computer class. Statistics preferred; com acceptable.  Foundations of Education or Multicultural Education CDA Capstone-Childcare Practicum or Teaching Professional/Field Experience Educational Psychology Human Development Education of the Exceptional Learner  ments for Teacher Education Program: Pleas  Maximum credit hours to	Teacher Co	a servificat  Take all  3  3  3  3  15  Tam require	STAT 3115 or IST 1551 or CS 1971,1981 or CS 1500  ion Requirements courses.  EDUC 1074  EDUC 2102 or PSYCH 2300 PSYCH 2310 EDUC 2310 or PSYCH 3310 EDUC 2310 or PSYCH 4310  rements at https://teachere	Engineering Statistics or Implementing Infor Sys: User Persp or Computational Problem Solving Or other statistics or computer class. Statistics preferred; computer class is acceptable. Satisfies a 3-hour computer science/statistics requirement. Any additional credit hours apply to degree totals as general elective credit.  Education in a Diverse Society  Teacher Field Experience I  Educational Psychology Developmental Psychology Education of the Exceptional Child or Psychology of the Exceptional Child  Total Hours  education.mst.edu/secondaryeducation/.	2 1 3 3 3 12
MTH 242 or CIS 143 or EGR 221, 222 or EGR 251  EDU 201 or EDU 214 EDU 190 or EDU 212 EDU 241 PSY 250 EDU 244  Professional Require Missouri S&T residency r	Engineering Statistics or Implementing Info SysUser Perspective or Program Engineers and Lab (4) or Data Structures Or other statistics or computer class. Statistics preferred; comacceptable.  Foundations of Education or Multicultural Education CDA Capstone-Childcare Practicum or Teaching Professional/Field Experience Educational Psychology Human Development Education of the Exceptional Learner	Teacher C  Total Hours e view all prog o be transfedegree must be co	Take all and	STAT 3115 or IST 1551 or CS 1971,1981 or CS 1500  ion Requirements courses.  EDUC 1074  EDUC 1104  EDUC 2102 or PSYCH 2300 PSYCH 2300 PSYCH 3310 EDUC 2310 or PSYCH 4310  rements at https://teachere Missouri S&T degree Missouri S&T degree	Engineering Statistics or Implementing Infor Sys: User Persp or Computational Problem Solving Or other statistics or computer class. Statistics preferred; computer class is acceptable. Satisfies a 3-hour computer science/statistics requirement. Any additional credit hours apply to degree totals as general elective credit.  Education in a Diverse Society  Teacher Field Experience I  Educational Psychology Developmental Psychology Education of the Exceptional Child or Psychology of the Exceptional Child  Total Hours Education.mst.edu/secondaryeducation/.	2 1 3 3 3 12

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 800-522-0938.