

Jefferson College — Missouri S&T

Biological Sciences BA with Secondary Education Teacher Certification

Transfer Guide Effective as of Fall 2025

Jefferson College

Missouri S&T

Communication Skills

Take all courses.

General Education Requirements					
ENG 101	English Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ENG 102	Composition and Rhetoric II	3	ENGLISH 1160	Writing and Research	3
COM 110	Public Speaking	3	SPMS 1185	Principles of Speech	3
		Total Hours	9		
				Total Hours	9

Social Sciences

Take all courses.

PSC 102	US and Missouri Govt. and Constitution	3	POL SCI 1200	American Government	3
PSY 101	General Psychology	3	PSYCH 1101	General Psychology	3
		Total Hours	6		
				Total Hours	6

Humanities

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

Select one course to include at least one course in each of the following categories: art, music, theatre, philosophy, literature.							
ART 101 or MUS 121 or THT 100	Art Appreciation or Appreciation of Music or Theatre Appreciation or other fine art	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Appreciation or Theatre via Video or other fine art	3		
PHL 102 or PHL 101	Intro to Philosophy or Logic or other philosophy	3	PHILOS 1105 or PHILOS 1115	Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or other philosophy	3		
ENG 130 or ENG 175 or ENG 215	English Life and Literature I or American Literature I or World Literature before 1650 or other literature	3	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1231	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or World Literature I or other literature	3		
		Total Hours	9			Total Hours	9

Mathematics and Sciences

Take all courses.

MTH 128	Intermediate Algebra or higher math	3	MATH 1103	Fundamentals of Algebra or higher math	3		
CHM 111	General Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab	5		
CHM 112	General Chemistry II	5	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) *CHEM 1510 is not an S&T degree requirement. Will transfer as general credit.	3		
BIO 101 or BIO 103	General Biology (5) or Biology for Majors I (4)	4	BIO SCI 1113, 1219 or BIO SCI 1213, 1219	General Biology and Lab or Principles of Biology and Lab	4		
		Total Hours	17			Total Hours	15

Additional Degree Requirements

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

PHY 111, 112 or PHY 106	College Physics I and Lab MOTR PHYS 150L (5) or Intro to Astronomy (4)	4-5	PHYSICS 1145 or PHYSICS 1505	College Physics I MOTR PHYS 150L (4) or Astronomy (3) Satisfies a 3-hour science requirement. Any additional credits apply to degree totals as general elective credit.	3
PHY 105	Physical Geology	4	GEOLOGY 1110	Physical and Environmental Geology	3
BIO 109	Ecology and Environmental Conservation	3	BIO SCI 1173	Intro to Environmental Sciences	3
BIO 201	Genetics	3	BIO SCI 2223	General Genetics	3
CHM 200	Organic Chemistry I	5	CHEM 2210	Organic Chemistry I	3
CHM 201	Organic Chemistry II	5	CHEM 2220	Organic Chemistry II	3
HST 201	Ancient and Medieval Civilization	3	HISTORY 1100	Early Western Civilization	3
HST 202	Renaissance to Early Mod Europe MOTR WCIV 102	3	HISTORY 1200	Modern Western Civilization MOTR WCIV 102	3
MTH 132 or MTH 163 or CIS 155	Introductory Statistics or Probability and Statistics or Intro to Computer Programming Or other statistics or computer class. Statistics preferred; computer class is acceptable.	3	STAT 1115 or STAT 1115 or 1971, 1981	Statistics for Social Sciences I or Statistics for Social Sciences or Intro to Programming Methodology and Lab 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.	3

Teacher Certification Requirements

Take all courses.

EDU 210	Foundations of Education	3	EDUC 1074	Education in a Diverse Society	2		
EDU 230	Teaching Profession with Field Experience	3	EDUC 1104	Teacher Field Experience I	1		
EDU 225	Educational Psychology	3	EDUC 2102 or PSYCH 2300	Educational Psychology	3		
PSY 201	Child Psychology	3	PSYCH 3310	Developmental Psychology	3		
		Total Hours	12			Total Hours	9

Professional Requirements for Teacher Education Program: Please view all program requirements at <https://teachereducation.mst.edu/secondaryeducation/>.

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.

must receive special permission from Missouri S&T to apply more than the maximum credit hours listed above toward the Missouri S&T degree.

required to complete all courses on this guide before transferring to Missouri S&T.

Students

Students are not