

# Moberly Area Community College — Missouri S&T

## Physics BS with Secondary Education Teacher Certification

Transfer Guide Effective as of Fall 2025

### Moberly Area Community College

### Missouri S&T

#### Communication Skills

Take all courses.

LAL 101	Composition I	3	ENGLISH 1120	Exposition and Argumentation	3	
LAL 102 or IND 120	Composition II or Technical Report Writing	3	ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing	3	
SPK 101	Public Speaking	3	SPMS 1185	Principles of Speech	3	
		Total Hours	9	Total Hours		9

#### Mathematics and Science

Take all courses.

MTH 201	Analytic Geometry and Calculus I	5	MATH 1214	Calculus I	4
MTH 202	Analytic Geometry and Calculus II	5	MATH 1215	Calculus II	4
MTH 203	Analytic Geometry and Calculus III	5	MATH 2222	Calculus III	4
PHY 201	Engineering Physics I	5	PHYSICS 1135	Engineering Physics I	4
PHY 202	Engineering Physics II	5	PHYSICS 2135	Engineering Physics II	4
PHY 121	General Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab	5
PHY 122	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
		Total Hours	35		
			Total Hours	28	

#### Social Sciences

Take all courses.

HST 102 or	Western Civilization II or		HISTORY 1300 or	American History to 1877 or	
HST 105 or	American History to 1865 or	3	HISTORY 1310 or	American History Since 1877 or	3
HST 106	American History fromn 1865		HISTORY 1200	Modern Western Civilization	
PCS 105	Intro to American Government	3	POL SCI 1200	American Government	3
PSY 101	General Psychology	3	PSYCH 1101	General Psychology	3
		Total Hours	9	Total Hours	
				9	

#### Humanities

Take all courses.

ART 101 or ART 102 or MUS 101 or MUS 102 or DRM 120	Art Survey and Appreciation I or Art Survey and Appreciation II or Fundamentals of Music or Music Appreciation or Theatre Appreciation	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Appreciation or Theatre via Video	3
LAL 150 or LAL 120 or LAL 210 or LAL 255 or LAL 125	English Literature Survey to 1750 or American Literature Survey to 1870 or A Survey of World Literature I or Women's Literature or African-American Literature or other literature	3	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1231 or ENGLISH 2242 or ENGLISH 2245 or	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or World Literature I or Literature by Women or African American Literature or other literature	3
Total Hours		6	Total Hours		6

#### Additional Degree Requirements

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

MTH 250	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
BIO 101 or BIO 155	Biology or General Biology for Majors I	4	BIO SCI 1113, 1219 or BIO SCI 1213*, 1219	General Biology and Lab*or Principles of Biology* and Lab* *BIO SCI 1213 will be substituted for 1113. The lab is not a degree requirement, will transfer as general elective credit.	3
PHY 162 or PHY 163	General Astronomy (3) or Geology (4)	3-4	PHYSICS 1505 or GEOLOGY 1110	Introductory Astronomy or Physical and Environmental Geology Will be substituted for PHYSICS 1605.	3

#### Teacher Certification Requirements

Take all courses.

EDU 220	Foundations of Education in a Diverse Society	3	EDUC 1074	Education in a Diverse Society	3		
EDU 225	Teaching Profession with Field Experience	3	EDUC 1104	Teacher Field Experience I	1		
EDU 245	Educational Psychology	3	EDUC 2102 or PSYCH 2300	Educational Psychology	3		
PSY 205	Human Lifespan Development	3	PSYCH 3310	Developmental Psychology	3		
EDU 242	Educational of Exceptional Learners	3	EDUC 2310 or PSYCH 4310	Education of the Exceptional Child or Psychology of the Exceptional Child	3		
		Total Hours	15			Total Hours	13

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.

61

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.