

# Moberly Area Community College — Missouri S&T

## Physics BS Transfer Guide

Effective as of Fall 2023

### 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	Composition II	3	ENGLISH 1160	Writing and Research	3
		Total Hours			Total Hours
		6			6

#### 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 121	General Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab	5
PHY 122	General Chemistry II	5	CHEM 1320	General Chemistry II	3
PHY 201	Engineering Physics I	5	PHYSICS 1135	Engineering Physics I	4
PHY 202	Engineering Physics II	5	PHYSICS 2135	Engineering Physics II	4
		Total Hours			Total Hours
		35			28

#### Social Sciences

Select 9 hours to include at least one course to satisfy the state requirement.

HST 102 or HST 105 or HST 106 or PSC 105	Western Civilization II or American History to 1865 or American History fromn 1865 or Intro to American Government <small>(At least one of these courses is required to satisfy state requirement)</small>	3	HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization or American History to 1877 or American History Since 1877 or American Government <small>(At least one of these courses is required to satisfy state requirement)</small>	3
ECN 102 or ECN 101	Microeconomics or Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics <small>(or other economics)</small>	3
PSY 101	General Psychology	3	PSYCH 1101	General Psychology <small>(or other psychology)</small>	3
	Social Sciences Elective: Any economics, history, political science, sociology, psychology elective	3	Social Sciences	Social Sciences Elective: Any economics, history, political science, sociology, psychology elective	3
		Total Hours			Total Hours
		9			9

#### Humanities

Select 6 credit hours to include at least one literature.

PHI 150	Introduction to Philosophy	3	PHILOS 1105	Self and World: Intro to Philosophy <small>(or other philosophy)</small>	3
ART 101 or ART 102	Art Survey and Appreciation I or Art Survey and Appreciation I	3	ART 118	Art Appreciation <small>(or other fine art)</small>	3
MUS 101 or MUS 102	Fundamentals of Music or Music Appreciation	3	MUS 1150	Music Understanding and Appreciation <small>(or other music)</small>	3
DRM 120	Theatre Appreciation	3	THEATRE 1190	Theatre via Video <small>(or other theater)</small>	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 <small>(or other literature elective)</small>	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 <small>(or other literature elective)</small>	3
	Other fine art, literature, or philosophy elective	3		Other fine art, literature, or philosophy elective	3
		Total Hours			Total Hours
		6			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
ITC 125 or ITC 243 or ITC 244 or ITC 247	Object-Oriented Programming I or Object-Oriented Programming II: Java or Object-Oriented Programming II: C# or Python Programming	3	CS 1500	Computational Problem Solving	3
	Maximum Free Electives	3		Maximum Free Electives	6

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

**60**

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.