## St. Louis Community College — Missouri S&T Applied Mathematics BS

Transfer Guide Effective as of Fall 2024

	and Cor	mmunication Skills		
	Take al	II aauraaa		
College Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
College Composition II or	3	ENGLISH 1160 or	Writing and Research or	3
Report Writing	2	ENGLISH 3560	Technical Writing	,
		SPIVIS 1 185	·	9
Total Hot		anities	Total Hours	š
Select 9 ho				
British Literature II or		ENGLISH 1212 or	British Literature II or	
American Literature I or		ENGLISH 1221 or	American Literature 1600 to 1865 or	
American Literature II or		ENGLISH 1222 or	American Literature 1865 to Present or	
World Literature or	3	ENGLISH 1231 or	World Literature I or	3
Women in Literature or		ENGLISH 2242 or	Literature by Women or	
Major Black Writers or other literature		ENGLISH 2245	African American Literature or other literature	
·	_		·	
			,	3
Intro to Philosophy			Self and World: Intro to Philosophy	3
· ·			Art Appreciation	3
				3
				3
	3	Foreign Language		3
	3	Humanities		3
·	3	Social Science	•	3
				ç
		Sciences		
	Take al	II courses.		
Western Civilization 1500 to Present or		HISTORY 1200 or	Modern Western Civilization or	
US History to 1865 or		HISTORY 1300 or	American History to 1877 or	
US History 1865 to Present or	3	HISTORY 1310 or	American History Since 1877 or	3
Intro to American Politics		POL SCI 1200	American Government	
At least one of these courses is required to satisfy state requirement.		ECON 1100* or		
Principles of Microeconomics or			•	
Principles of Macroeconomics	3	20011 1200	*Students pursuing the Actuarial Science emphasis take BOTH ECON 1100	3
Total Hou	ırs 6			6
		s. and Computer Sci		
Analytical Geometry and Calculus I	5	MATH 1214	Calculus I	4
Analytical Geometry and Calculus II	5	MATH 1215	Calculus II	4
Analytical Geometry and Calculus III	5	MATH 2222	Calculus III	4
Differential Equations	3	MATH 3304	Elementary Differential Equations	3
•	3	MATH 3108	Linear Algebra	3
<u> </u>			Zinodi 7 ilgozia	Ĭ
3 3 ( )	3	CS 1500	Computational Problem Solving	3
Python (3)	ŭ	00 1000	Companional Frozioni Coming	
Total Hou	ırs 24		Total Hours	2
	Sc	ience		
Select PHYSICS 1135 and 2 additional courses	from the op	tions below. A total of 13	hours will apply to this requirement.	
Engineering Physics I required	5	PHYSICS 1135	Engineering Physics I required	4
Engineering Physics II	5	PHYSICS 2135	Engineering Physics II	4
General Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab	5
General Chemistry II	5	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2)	3
General Grieffistry II	J	,	*Chem 1510 is not an S&T degree reguirement. Will transfer as general credit.	_
Intro to Biology I (4) or	4	· ·	General Biology and Lab or	4
1 6, ( )	ırs 13	BIO SCI 1213, 1219		1;
		ree Requirements		
			hours shown below.	
Technical electives in biology, chemistry, computer			Technical electives in biology, chemistry, computer	
science, economics, engineering, geology, mechanics	, 3	Technical Electives	science, economics, engineering, geology, mechanics,	3
or physics approved by advisor.			or physics approved by advisor.	
Maximum Free Electives	14	Electives	Maximum Free Electives	1
Maximum credit hours to be tran	sferred to	o Missouri S&T degr	ee requirements.	6
Students must receive special permission from Missouri S&T				
	British Literature II or American Literature II or American Literature II or World Literature or World Literature or World Literature or Major Black Writers or other literature At least one literature course is required.  General Psychology Intro to Philosophy Art Appreciation Music Appreciation Intro to Theatre Any foreign language Any fine art, English, music, theatre, philosophy or speech. Any history, political sicence, or psychology.  Total Hou  Western Civilization 1500 to Present or US History 1865 to Present or Intro to American Politics At least one of these courses is required to satisfy state requirement.  Principles of Microeconomics or Principles of Macroeconomics  Total Hou  Mathematics,  Analytical Geometry and Calculus II Analytical Geometry and Calculus II Differential Equations Linear Algebra C++ Programming I (4) or Java Programming I (4) or Java Programming I (4) or Python (3)  Total Hou  Select PHYSICS 1135 and 2 additional courses Engineering Physics I required Engineering Physics II General Chemistry II Intro to Biology I (4) or Principles of Biology I (5)  Total Hou  Additic  Select additional courses to total Technical electives in biology, chemistry, computer science, economics, engineering, geology, mechanics or physics approved by advisor.  Maximum Credit hours to be tran	British Literature II or American Literature II or American Literature II or American Literature II or American Literature II or World Literature or World Literature or Major Black Writers or other literature At least one literature course is required.  General Psychology 3 Intro to Philosophy 3 Art Appreciation 3 Music Appreciation 3 Intro to Theatre Any foreign language 3 Any fine art, English, music, theatre, philosophy or speech. Any history, political sicence, or psychology. 3 Any history, political sicence, or psychology. 3 Any History 1865 or US History 1865 or US History 1865 or US History 1865 or US History 1865 or Present or Intro to American Politics At least one of these courses is required to satisfy state requirement.  Principles of Microeconomics or Principles of Macroeconomics or Principles of Macroeconomics 3 Analytical Geometry and Calculus II 5 Analytical Geometry and Calculus II 5 Differential Equations 3 Linear Algebra 3 C++ Programming I (4) or Java Programming I (4) or Java Programming I (4) or Python (3) Total Hours 24  Sc Select PHYSICS 1135 and 2 additional courses from the open course is required by advisor.  For the Hours 13 Additional Deg Select additional courses to total up to the Technical electives in biology, chemistry, computer science, economics, engineering, geology, mechanics, or physics approved by advisor.  Maximum credit hours to be transferred to the supplies of the principles of physics approved by advisor.  Maximum credit hours to be transferred to the supplies of the principles of physics approved by advisor.	Select 9 hours to include at least one literature.	Total Hours   Purpose   Purpose

This transfer guide is published by Missouri University of Science and Technology and is in effect as of Fall 2024. Further information or updates are available from Missouri S&T Transfer Admissions at transfer.mst.edu, transfer@mst.edu, or 800-522-0938.