St. Charles Community College — Missouri S&T Applied Mathematics BS Transfer Guide Effective as of Fall 2025

	St. Charles Community College		s on this guide before transferri	Missouri S&T	
	Engl	ish and Con	nmunication Skills		
NG 101	English Composition I	Take al	courses. ENGLISH 1120	Exposition and Argumentation	
NG 102 or	English Composition II or		ENGLISH 1160 or	Writing and Research or	
NG 115 or	Technical Writing or	3	ENGLISH 3560 or	Technical Writing or	
OM 106	Public Speaking Total Hours	s 6	SPMS 1185	Principles of Speech Total Hour	s
			s, and Computer Science	Total Houl	5
AT 400	Orlandor and Arabitic Organization		courses.	Octobro	
AT 180 AT 230	Calculus and Analytic Geometry I Calculus and Analytic Geometry II	5 5	MATH 1214 MATH 1215	Calculus I Calculus II	
AT 240	Calculus and Analytic Geometry III	5	MATH 2222	Calculus III	
lat 250	Differential Equations	3	MATH 3304	Elementary Differential Equations	
IAT 242	Introductory Linear Algebra	3	MATH 3108	Linear Algebra	
PT 135 or	Comp Sci 1 With Python (4) or	•	00110 001 1500	0 15 15 11 01:	
:PT 185or :PT 189	Programming in C# (3) or Java Programming (3)	3	COMP SCI 1500	Computational Problem Solving	
PT 182	Beginning Programming in C++	3	COMP SCI 1570, 1580	Intro to C++ Programming and Lab	
	Total Hours			Total Hou	
		Natural	Sciences		
	Select PHYSICS 1135 and 1 additional cours				
HY 250 HY 251	Engineering Physics I required Engineering Physics II	5 5	PHYSICS 1135 PHYSICS 2135	Engineering Physics I required	
HM 107	Chemistry, Society, and the Environment	3	CHEM 1301	Engineering Physics II Introductory Chemistry	
HM 115	General Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab	
				General Chemistry II (3) and Qualitative Analysis (2)	
CHM 116	General Chemistry II	5	CHEM 1320, 1510*	*CHEM 1510 is not a degree requirement, transfers as general elective credit.	
BIO 105, 106 or	Essentials of Biology and Lab (4) or	4	BIO SCI 1113, 1219 or	General Biology and Lab or	
BIO 150 PHY 125	General Biology: Cells to Organisms (5)	3	BIO SCI 1213, 1219 GEOLOGY 1110	Principles of Biology and Lab	
TH 125	Intro to Physical Geology Total Hours		GEOLOGY 1110	Physical and Environmental Geology or higher geology Total Houl	
			ces General Education Re		
			up below, select 15 hours to m at least two specific discip		
	6 hours Behavioral and	Social Scienc	es from at least two specific d	lisciplines.	
*	*At least one course must be selected from HISTORY 1200		<u> </u>	state of Missouri government requirement.	
	Select 6 h		and Fine Arts ast two specific disciplines.		
.IT 250 or	English Literature Before 1800 or	ouro ironii ut io	ENGLISH 1211 or	British Literature I: The Beginnings to 1800 or	
.IT 260 or	English Literature After 1800 or		ENGLISH 1212 or	British Literature II: 1800 to Present	
.IT 210 or	American Literature From Beginnings-1865 or		ENGLISH 1221 or	American Literature: 1600 to 1865 or	
.IT 220 or	American Literature From 1865-Present or		ENGLISH 1222 or	American Literature: 1865 to Present or	
	Maria Literatura Ancient Maria thur Denciseance or				
IT 272 or	World Literature-Ancient World thru Renaissance or	6	ENGLISH 1231 or	World Literature I: Beginnings to the Renaissance or	
IT 272 or I IS 101* or	US History to 1877* or	6	ENGLISH 1231 or HISTORY 1300* or	World Literature I: Beginnings to the Renaissance or American History to 1877 or	
IT 272 or I IS 101* or I IS 102* or	US History to 1877* or US History Since 1877* or	6	ENGLISH 1231 or	World Literature I: Beginnings to the Renaissance or	
IT 272 or IS 101* or IS 102* or RT 1001 or	US History to 1877* or	6	ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or	World Literature I: Beginnings to the Renaissance or American History to 1877 or American History Since 1877 or	
T 272 or IS 101* or IS 102* or RT 1001 or US 111 or	US History to 1877* or US History Since 1877* or Art Appreciation or Music Appreciation or Intro to the Theatre	6	ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or	World Literature I: Beginnings to the Renaissance or American History to 1877 or American History Since 1877 or Art Appreciation or Music Understanding and Appreciation or Theatre for Social Change	
T 272 or I S 101* or I S 102* or RT 1001 or US 111 or	US History to 1877* or US History Since 1877* or Art Appreciation or Music Appreciation or Intro to the Theatre *Satisfies the State of Missouri government requirement.		ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 or THEATRE 1150	World Literature I: Beginnings to the Renaissance or American History to 1877 or American History Since 1877 or Art Appreciation or Music Understanding and Appreciation or	
IT 272 or IS 101* or IS 102* or RT 1001 or IUS 111 or HE 122	US History to 1877* or US History Since 1877* or Art Appreciation or Music Appreciation or Intro to the Theatre *Satisfies the State of Missouri government requirement. E Select 6 hours to include EC	Behavioral and	ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 or THEATRE 1150 Social Sciences 00 and from at least two specif	World Literature I: Beginnings to the Renaissance or American History to 1877 or American History Since 1877 or Art Appreciation or Music Understanding and Appreciation or Theatre for Social Change *Satisfies the State of Missouri government requirement.	
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IT 272 or IIS 101* or IIS 102* or IRT 1001 or IUS 111 or HE 122 ICO 120 or ICO 110	US History to 1877* or US History Since 1877* or Art Appreciation or Music Appreciation or Intro to the Theatre *Satisfies the State of Missouri government requirement. E Select 6 hours to include EC Principles of Microeconomics or Principles of Macroeconomics	Sehavioral and CON 1100 or 12	ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 or THEATRE 1150 Social Sciences 00 and from at least two specification or ECON 1100 or ECON 1200	World Literature I: Beginnings to the Renaissance or American History to 1877 or American History Since 1877 or Art Appreciation or Music Understanding and Appreciation or Theatre for Social Change "Satisfies the State of Missouri government requirement." ic disciplines. Principles of Microeconomics or Principles of Macroeconomics	
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IT 272 or IS 101* or IS 101* or IS 102* or RT 1001 or IUS 111 or HE 122 CO 120 or CO 110 IS 145 or IS 146* or IEO 110 or HL 101 or HL 101 or HL 102 or OL 101* or SY 101 or	US History to 1877* or US History Since 1877* or Art Appreciation or Music Appreciation or Intro to the Theatre *Satisfies the State of Missouri government requirement. E Select 6 hours to include EC Principles of Microeconomics or Principles of Macroeconomics Western Civilizations Ancient and Medieval or Western Civilizations Modern European* or Geography for Educators or Intro to Philosophy or Intro to Logic or American Government* or Intro to Psychology or	Behavioral and CON 1100 or 12 3	ENGLISH 1231 or HISTORY 1300° or HISTORY 1310° or ART 1180 or MUSIC 1150 or THEATRE 1150 Social Sciences 200 and from at least two specif ECON 1100 or ECON 1200 HISTORY 1100 or HISTORY 2110 or PHILOS 1105 or PHILOS 1115 or POL SCI 1200° or PSYCH 1101 or	World Literature I: Beginnings to the Renaissance or American History to 1877 or American History Since 1877 or Art Appreciation or Music Understanding and Appreciation or Theatre for Social Change "Satisfies the State of Missouri government requirement. ic disciplines. Principles of Microeconomics or Principles of Macroeconomics Early Western Civilization or Modern Western Civilization or World Regional Geography or Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government or General Psychology or	
T 272 or IS 101* or IS 102* or RT 1001 or US 111 or HE 122 CO 120 or CO 110 IS 145 or IS 146* or EO 110 or HL 101 or HL 101 or HL 102 or OL 101* or SY 101 or	US History to 1877* or US History Since 1877* or Art Appreciation or Music Appreciation or Intro to the Theatre *Satisfies the State of Missouri government requirement. Select 6 hours to include EC Principles of Microeconomics or Principles of Macroeconomics Western Civilizations Ancient and Medieval or Western Civilizations Modern European* or Geography for Educators or Intro to Philosophy or Intro to Logic or American Government* or Intro to Psychology or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	Sehavioral and CON 1100 or 12 3	ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 or THEATRE 1150 Social Sciences 200 and from at least two specif ECON 1100 or ECON 1200 HISTORY 1100 or HISTORY 2110 or HISTORY 2110 or PHILOS 1105 or PHILOS 1105 or POL SCI 1200* or PSYCH 1101 or Foreign Language	World Literature I: Beginnings to the Renaissance or American History to 1877 or American History Since 1877 or Art Appreciation or Music Understanding and Appreciation or Theatre for Social Change *Satisfies the State of Missouri government requirement. ic disciplines. Principles of Microeconomics or Principles of Macroeconomics Early Western Civilization or Modern Western Civilization or World Regional Geography or Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government or	
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IT 272 or IIS 101* or IIS 101* or IIS 102* or IRT 1001 or IUS 111 or HE 122 ICC 0 120 or ICC 0 110 IIS 145 or IIS 146* or IICC 110 or IHL 101 or IHL 102 or INC 101	US History to 1877* or US History Since 1877* or Art Appreciation or Music Appreciation or Intro to the Theatre *Satisfies the State of Missouri government requirement. Select 6 hours to include EC Principles of Microeconomics or Principles of Macroeconomics Western Civilizations Ancient and Medieval or Western Civilizations Modern European* or Geography for Educators or Intro to Philosophy or Intro to Logic or American Government* or Intro to Psychology or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	Sehavioral and CON 1100 or 12 3 3 3 4 4 4 4 4 5 4 5 6 6 6 6 6 6 6 6 6 6 6 6	ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 or THEATRE 1150 Social Sciences 200 and from at least two specif ECON 1100 or ECON 1200 HISTORY 1100 or HISTORY 2110 or HISTORY 2110 or PHILOS 1105 or PHILOS 1105 or PHILOS 1105 or POL SCI 1200* or PSYCH 1101 or Foreign Language and Social Sciences 3 hours.	World Literature I: Beginnings to the Renaissance or American History to 1877 or American History Since 1877 or Art Appreciation or Music Understanding and Appreciation or Theatre for Social Change "Satisfies the State of Missouri government requirement." ic disciplines. Principles of Microeconomics or Principles of Microeconomics Early Western Civilization or Modern Western Civilization or World Regional Geography or Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government or General Psychology or Elementary or Intermediate Foreign Language "Satisfies the State of Missouri government requirement. Humanities, Arts, Social Sciences Elective: Any history, art, music, theater, English and technical communication,	
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Students are not required to complete all courses on this guide before transferring to Missouri S&T.

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