	Transfer Students are not required to complete		Effective as of Fall 2025 ses on this guide before tran		
	St. Charles Community College		3	Missouri S&T	
	c		nication Skills		
NG 101	English Composition I	Take 3	all courses. ENGLISH 1120	Exposition and Argumentation	3
NG 102 or NG 115	English Composition II or Technical Writing	3	ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing	3
NG 113	Total Hours			Total Hours	6
	Computer Sc		Mathematics, and Scie all courses.	ence	
PT 135 or	Computer Science I with Python (4) or		CS 1500	Computational Broblem Solving	3
PT 185 or PT 189	Programming in C Sharp (3) or Java Programming (3)	3		Computational Problem Solving	
PT 182 PT 281	Beginning Programming in C++ Intro to Data Structures with C++	3	CS 1570 CS 1575	Intro to Programming Data Structures	3
AT 180	Calculus and Analytic Geometry I	5	MATH 1214	Calculus I	4
AT 230 AT 242	Calculus and Analytic Geometry II Introductory Linear Algebra	5 3	MATH 1215 MATH 3108	Calculus II Linear Algebra	4
	Total Hours		Science Floatives	Total Hours	20
Select u	E⊓g≀r up to 6 hours in engineering/science electives not already use		Science Electives fy another degree requirement	ent. See Approved Science and Engineering Electives at	
			/undergraduate-degree/	Calculus III (4) or	
AT 240 or AT 250	Calculus and Analytic Geometry III or Differential Equations	3	MATH 2222 or MATH 3304	Elementary Differential Equations (3) Or other math 2000-level or higher or Any statistics 4000-level or higher Credit hours apply to degree totals as indicated for each course.	3
GR 170 or GR 210 or GR 220	Engineering Mechanics-Statics or Engineering Mechanics-Dynamics or Electrical Circuits	3	CIV ENG 2200 or MECH ENG 2350 or ELEC ENG 2100	Statics or Engineering Mechanics-Dynamics (2) or Circuits I Or other course with the equivalent of a Missouri S&T engineering designation.	3
HY 150,153 or HY 250	General Physics and Lab or Engineering Physics I	5	PHYSICS 1145 or PHYSICS 1135	College Physics I or Engineering Physics I Only one of these courses may be applied to the engineering/science elective requirement.	4
HY 151,154 or HY 251	General Physics II and Lab or Engineering Physics II	5	PHYSICS 2145 or PHYSICS 2135	College Physics II or Engineering Physics II Only one of these courses may be applied to the engineering/science elective requirement.	4
hysics	Any physics excluding the equivalent of S&T PHYS 2111, 2119, 2135, and 2145, except as noted above.	3	Physics	Any physics excluding the equivalent of S&T PHYS 2111, 2119, 2135, and 2145, except as noted above.	3
cience	Any biology, chemistry, geology, or environmental science.	3	Science	Any biology, chemistry, geology, or environmental science.	3
	*A maximum of 6 hours applies to engineering Total Hours		ive requirements. Any additional credit ho	urs apply to degree totals as general elective credit. Total Hours	6
			ral Education Require		
	Select 7 hours to include at least t	wo specif	fic disciplines and to include	e at least 1 hour of lab. General Chemistry I (4) and Lab (1) or	
HM 115 or O 105, 106 or O 150 or O 151 or HY 130, 131	General Chemistry I (5) Essentials of Biology (3) and Lab (1) or General Biology: Cells to Organisms (5) General Biology: Organisms to Environment or Astronomy (3) and Lab (1)	5	CHEM 1310, 1319 or BIO SCI 1113, 1219 or BIO SCI 1213, 1219 or BIO SCI 1223, 1229 or PHYSICS 1505, 1509	General Biology (3) and Lab (1) or Principles of Biology and Lab Biodiversity (3) and Lab (1) or Introductory Astronomy (3) and Lab (1) Salisfies the gen ed natural science lecture/lab requirement. Lecture/lab pair must total a minimum of 4 hours.	4
atural Science	Any Biology (1113 or higher), Chemistry (1301 or higher), Geology (1110 or higher) or Physics (1111 or higher) Total Hours	3	Natural Science	Any Biology (1113 or higher), Chemistry (1301 or higher), Geology (1110 or higher) or Physics (1111 or higher) Total Hours	3
	Humanities, Arts, and Soc		nces General Education		
	From the options listed	in each	group below, select 15 ho	urs to include	
	6 hours Humanities and I	Fine Arts 1	from at least two specific dis nces from at least two speci	sciplines and	
	*At least one course must be selected from HISTORY 1200,				
			es and Fine Arts least two specific discipline	2	
T 250 or T 260 or	English Literature Before 1800 or		ENGLISH 1211 or ENGLISH 1212 or	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present	
T 210 or	English Literature After 1800 or American Literature From Beginnings-1865 or		ENGLISH 1221 or	American Literature: 1600 to 1865 or	
T 220 or T 272 or	American Literature From 1865-Present or World Literature-Ancient World thru Renaissance or		ENGLISH 1222 or ENGLISH 1231 or	American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance or	
IS 101* or IS 102* or	US History to 1877* or US History Since 1877* or	6	HISTORY 1300* or HISTORY 1310* or	American History to 1877 or American History Since 1877 or	6
RT 1001 or US 111 or	Art Appreciation or Music Appreciation or		ART 1180 or MUSIC 1150 or	Art Appreciation or Music Understanding and Appreciation or	
HE 122	Intro to the Theatre		THEATRE 1150	Theatre for Social Change	
			nd Social Sciences	*Satisfies the State of Missouri government requirement.	
JS 105	Select 6 hours from at least two s Business Ethics or other upper-level ethics	pecific dis	sciplines, to include an upp PHILOS 3235	Business Ethics Or other upper-level ethics elective. At least one upper-level ethics course is	3
S 145 or	Western Civilizations Ancient and Medieval or		HISTORY 1100 or	required. Early Western Civilization or	
S 146* or EO 110 or	Western Civilizations Modern European* or Geography for Educators or		HISTORY 1200* or HISTORY 2110 or	Modern Western Civilization* or World Regional Geography or	
DL 101* or	American Government* or		POL SCI 1200* or	American Government* or	
SY 101 or CO 120 or	Intro to Psychology or Principles of Microeconomics or	3	PSYCH 1101 or ECON 1100 or	General Psychology or Principles of Microeconomics or	3
CO 110 or oreign Language	Principles of Macroeconomics or Elementary or Intermediate Foreign Language		ECON 1200 or Foreign Language	Principles of Macroeconomics or Elementary or Intermediate Foreign Language	
	*Satisfies the State of Missouri government requirement.	tion A:-		*Satisfies the State of Missouri government requirement.	
OM 106			s, and Social Sciences	Dringings of Speech	
OM 106	Public Speaking Total Hours	3 15	SPMS 1185	Principles of Speech Total Hours	3 15
	Additio	onal De	gree Requirements		
	Select additional courses to total Intro to Engineering	al up to th 1	e maximum transfer credit b FR ENG 1100	nours shown below. Study and Careers in Engineering and Computing	1
GR 100		7	Electives	Maximum Free Electives	7
GR 100 ectives	Maximum Free Electives				