Kaskaskia College — Missouri S&T

General Engineering

Transfer Guide Effective as of Fall 2025

Complete Group 1 - Core Requirements and Group 2 - Major Requirements for major of choice.

Students are not required to complete all courses on this guide before transferring to Missouri S&T.

Group 1 - Core Requirements: All Majors Take All Courses

Engineering students take all Group 1 - Core Requirements and Group 2 - Major Requirements for major of choice. Math prerequisites: While they are not part of Missouri S&T engineering degree requirements, algebra and trigonometry skills are critical to success in calculus. To prepare for entry into calculus, students should follow math placement testing and advising recommendations at their college.

	Kaskaskia College	Sem	<u>ester</u>	Missouri S&T		
MATH 166	Calculus and Analytical Geometry I	5	MATH 1214	Calculus I Grade of C or better is required.		4
MATH 267	Calculus and Analytical Geometry II	4	MATH 1215	Calculus II Grade of C or better is required.		4
MATH 268	Calculus and Analytical Geometry III	4	MATH 2222	Calculus III Grade of C or better is required.		4
MATH 269	Differential Equations	3	MATH 3304	Elementary Differential Equations		3
PHYS 201	University Physics I	5	PHYSICS 1135	Engineering Physics I Grade of C or better is required.		4
PHYS 202	University Physics II	5	PHYSICS 2135	Engineering Physics II Grade of C or better is required.		4
ENGL 101	English Composition	3	ENGLISH 1120	Exposition and Argumentation		3
		Total Hours 29			Total Hours	26

Group 2 - Major Requirements: Take All Courses for Major of Choice

Engineering students take all Group 1 - Core Requirements (above) and Group 2 - Major Requirements for chosen major from list below. See course requirements on following pages.

Aerospace Engineering

Architectural Engineering

Biomedical Engineering/Biomanufacturing or Biomaterials

Ceramic Engineering

Chemical Engineering and Biochemistry Emphasis

Civil Engineering

Computer Engineering

Electrical Engineering

Engineering Management

Environmental Engineering

Geological Engineering

Mechanical Engineering

Metallurgical Engineering

Mining Engineering

Nuclear Engineering

Nuclear Engineering

Petroleum Engineering

Engineering Major Requirements are detailed on the following pages.

Free Electives: Some programs allow Free Electives as indicated within each major. Free Electives should be selected in consultation with your advisor and may not include remedial/deficiency courses, algebra, trigonometry, pre-calculus, or extra credits in required courses.

This transfer guide is published by Missouri University of Science and Technology and is in effect as of Fall 2025.
Further information or updates are available from Missouri S&T Transfer Admissions at transfer.mst.edu, transfer@mst.edu, or 800-522-0938.

	Aerospace En	gineering	g Grou	p 2 Major R	Requirements	
	Kaskaskia College		Semester		Missouri S&T	
ENGL 102 or COMM 103	English Composition or Fundamentals of Speech Communication	3		ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech	3
CHEM 111	Chemistry I (Inorganic Chemistry)	5		CHEM 1310*, 1319	General Chemistry I and Lab *CHEM 1310 will be substituted for CHEM 1305.	5
ENGR 210	Electrical Circuits	4		ELEC ENG 2800	Electrical Circuits	3
ENGR 203	Statics	3		CIV ENG 2200	Engineering Mechanics-Statics	3
ENGR 205	Mechanics of Materials	3		CIV ENG 2210	Mechanics of Materials Linear Algebra I	3
MATH 236	Linear Algebra	3		MATH 3108	Satisfies the Advanced Math/Comp Sci elective requirement.	3
PHLE 201	Professional Ethics for Engineers or other engineering, business, bio, social ethics approved by advisor	3		PHILOS 3225	Engineering Ethics or other engineering, business, bio, social ethics approved by advisor	3
	Humanities From th 6 hours I	e options listed in e Humanities and Fine ehavioral and Social	ach group be Arts from at le Sciences from	eneral Education Requi elow, select 15 hours to in east two specific discipline at least two specific disci	irements clude s and iplines.	
	71.1000.01.000.000.000.000.000.000.000.0		nities and Fi	•	outo of micrount government requirement.	
				specific disciplines.		
LITO 201 or LITO 202 or LITO 204 or LITO 205 or LITO 139 or HIST 103* or HIST 105 or MUSC 107	British Literature Survey, Part I or British Literature Survey, Part II or American Literature or American Literature or World Literature or World Literature or History of the United States* or History of the United States* or Intro to Art or Music Appreciation "Satisfies the State of Missouri government requirement.	6		ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1221 or ENGLISH 1231 or HISTORY 1300° or HISTORY 1310° or ART 1180 or MUSIC 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature: 1865 to Present or World Literature: 1869 to Present or American History to 1877* or American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation 3-8 distinct the State of Missouri government requirement.	6
			al and Socia			
HIST 101 or HIST 102* or GEOG 104 or PHLE 121 or PHLE 110 or POLS 101* or PSYH 101 or ECON 206 or ECON 205 or Foreign Language	History of Western Civilization or History of Western Civilization* or World Geography or Intro to Philosophy or Logic or American Government* or Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	Select 6 nours from	n at least two	o specific disciplines. HISTORY 1100 or HISTORY 1200* or HISTORY 2110 or PHILOS 1105 or PHILOS 115 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	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 Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6
			Arts, and So Select 3 hour	ocial Sciences		
HASS Elective	Humanities, Arts, Social Sciences Elective: Any hi music, theater, English and technical communication philosophy, political science, psychology, economic etymology, or foreign language.	on,		HASS Elective	Humanities, Arts, Social Sciences Elective: Any history, art, music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	3
	No free electives applied to the degree.	0			Maximum Free Electives	0
	Group 2 Major Requirements Group 1 Core Requirements	39 29 Total Hours 68			Group 2 Major Requirements Group 1 Core Requirements Total Hours* *S&T advisor permission is required to transfer more than 68 credits toward the S&T Aerospace Engineering degree.	38 26 64

	Architectural Er	ngineer	ing Gro	oup 2 Major	Requirements	
	Kaskaskia College		Semeste	e <u>r</u>	Missouri S&T	
ENGL 102 or COMM 103	English Composition or Fundamentals of Speech Communication		3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech	3
CHEM 111	Chemistry I (Inorganic Chemistry)		5	CHEM 1310*, 1319	General Chemistry I and Lab *CHEM 1310 will be substituted for CHEM 1305.	5
ENGR 203	Statics		3	CIV ENG 2200	Engineering Mechanics-Statics	3
ENGR 204	Dynamics		3	MECH ENG 2350	Engineering Mechanics-Dynamics	2
ENGR 205	Mechanics of Materials		3	CIV ENG 2210	Mechanics of Materials	3
PSCI 103	Geology		4	GEOLOGY 1110 (GEO ENG 1150)	Physical and Environmental Geology	3
	Humanities	, Arts, and Soc	ial Sciences C	Seneral Education Requ	irements	
	6 hours H	Humanities and Fehavioral and So	ine Arts from at	pelow, select 12 hours to in least two specific discipline om at least two specific disco DL SCI 1200 to satisfy the	es and ciplines.	
			manities and			
LITO 201 or LITO 202 or LITO 204 or LITO 205 or LITO 139 or HIST 103* or HIST 104* or ARTO 105 or MUSC 107	British Literature Survey, Part I or British Literature Survey, Part II or American Literature or American Literature or World Literature or World Literature or History of the United States* or History of the United States* or Intro to Art or Music Appreciation Statisfies the State of Missouri government requirement.		â	vo specific disciplines. ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1221 or ENGLISH 1221 or ENGLISH 1231 or HISTORY 1300° or HISTORY 1310° or ART 1180 or MUSIC 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1800 to 1865 or American Literature: 1865 to Present 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 *Satisfies the State of Missouri government requirement.	6
			ioral and Soc		NPV 4000	
		rs from at least	two specific dis	ciplines to include HISTO		
HIST 102*	History of Western Civilization* *Satisfies the State of Missouri government requirement.		3	HISTORY 1200*	Modern Western Civilization* *Satisfies the State of Missouri Government requirement.	3
PHLE 121 or PHLE 110 or POLS 101* or PSYH 101 or ECON 206 or ECON 205 or Foreign Language	Intro to Philosophy or Logic or American Government* or Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.		3	PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government* or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	3
	No free electives applied to the degree.)		Maximum Free Electives	0
	Group 2 Major Requirements		3		Group 2 Major Requirements	31
	Group 1 Core Requirements	Total Hours 6	9 2		Group 1 Core Requirements Total Hours* *S&T advisor permission is required to transfer more than 69 credits toward the S&T Architectural Engineering degree.	26 57

			_	_J -Biomanufa equirements		
	Kaskaskia College		Semeste	<u>r</u>	<u>Missouri S&T</u>	
COMM 103	Fundamentals of Speech Communication	3		SP&MS 1185	Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHEM 111	Chemistry I (Inorganic Chemistry)	5		CHEM 1310, 1319	General Chemistry I and Lab	5
CHEM 112	Chemistry II (Physical and Analytical)	5		CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) *CHEM 1510 is not a degree requirement, transfers as general elective credit.	3
CHEM 208	Organic Chemistry I	5		CHEM 2210, 2219	Organic Chemistry I and Lab	4
CHM 209 or BIOL 101	Organic Chemistry II (5) or Biology (4)	4		CHEM 2220, 2229 or BIO SCI 1113, 1219	Organic Chemistry II and Lab or General Biology and Lab Applies to degree as Track Elective.	4
CITP 155	Programming I	3		COMP SCI 1500	Computational Problem Solving	3
				eneral Education Requir		
		Humanities and Fir 3 hours B	e Arts from at I chavioral and S		and	
			nanities and F	ine Arts o specific disciplines.		
LITO 201 or LITO 202 or LITO 204 or LITO 205 or LITO 139 or HIST 103* or HIST 104* or ARTO 105 or MUSC 107	British Literature Survey, Part I or British Literature Survey, Part II or American Literature or American Literature or World Literature or History of the United States* or History of the United States* or Intro to Art or Music Appreciation *Satisfies the State of Missouri government requirement.	6		ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1222 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1865 to 1865 or American Literature: 1865 to Present or World Literature: Beginnings to the Renaissance or American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation 'Satisfies the State of Missouri government requirement.	6
		Behavi	oral and Social Select 3 hou			
HIST 101 or HIST 102* or GEOG 104or POLS 101* or PSYH 101 or ECON 206 or ECON 205 or Foreign Language	History of Western Civilization or History of Western Civilization* or World Geography or American Government* or Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	3	Salest o Hou	HISTORY 1100 or HISTORY 1200* or HISTORY 2110 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Early Western Civilization or Modern Western Civilization* or World Regional Geography or American Government* or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	3
	No free electives applied to the degree.	0			Maximum Free Electives	0
	Group 2 Major Requirements Group 1 Core Requirements	34 29 Total Hours 63			Group 2 Major Requirements Group 1 Core Requirements Total Hours* *S&T advisor permission is required to transfer more than 69 credit hours toward the degree.	31 26 57

		_	ineering-Biomate jor Requirements		
	Kaskaskia College		<u>Semester</u>	Missouri S&T	
COMM 103	Fundamentals of Speech Communication	3	SP&MS 1185	Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHEM 111	Chemistry I (Inorganic Chemistry)	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHEM 112	Chemistry II (Physical and Analytical)	5	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) *CHEM 1510 is not a degree requirement, transfers as general elective credit.	3
CHEM 208	Organic Chemistry I	5	CHEM 2210, 2219*	Organic Chemistry I and Lab* *CHEM 2219 Lab applies to the degree as a Track Elective (non-engineering).	4
CHEM 209	Organic Chemistry II	5	CHEM 2220, 2229*	Organic Chemistry II and Lab* CHEM 2229 Lab applies to the degree as a Track Elective (non-engineering).	4
BIOL 101	Biology	4	BIO SCI 1113*, 1219*	General Biology* and Lab* *Applies to degree as Track Elective (Non-engineering).	4
CITP 155	Programming I	3	COMP SCI 1500	Computational Problem Solving	3
ENGR 203	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
ENGR 210	Electrical Circuits	4	ELEC ENG 2100*, 2101	Circuits I* (3) and Circuit Analysis Lab (1) *A passing grade on the Missouri S&T EE Advancement Exam I is required to receive credit for ELEC ENG 2100. Applies to the degree as a Track Elective (Engineering).	4
	6 hours *At least one course must be selected from Hi	3 hours Beha STORY 1200, 1300, 1	Arts from at least two specific disciplines a avioral and Social Sciences. 1310, or POL SCI 1200 to satisfy the Statistics and Fine Arts		
			at least two specific disciplines.		
LITO 201 or LITO 202 or LITO 204 or LITO 205 or LITO 139 or HIST 103* or HIST 104* or ARTO 105 or MUSC 107	British Literature Survey, Part I or British Literature Survey, Part II or American Literature or American Literature or World Literature or World Literature or History of the United States* or History of the United States* or Intro to Art or Music Appreciation Satisfies the State of Missouri government requirement.	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or American Literature: 1865 to Present 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 *Satisfies the State of Missouri government requirement.	6
			al and Social Sciences		
HIST 101 or HIST 102* or GEOG 104or POLS 101* or PSYH 101 or ECON 206 or ECON 205 or Foreign Language	History of Western Civilization or History of Western Civilization* or World Geography or American Government* or Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	3	Select 3 hours. HISTORY 1100 or HISTORY 1200* or HISTORY 2110 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Early Western Civilization or Modern Western Civilization* or World Regional Geography or American Government* or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	3
	No free electives applied to the degree. Group 2 Major Requirements Group 1 Core Requirements	0 46 29 Total Hours 75		Maximum Free Electives Group 2 Major Requirements Group 1 Core Requirements Total Hou. *S&T advisor permission is required to transfer more than 69 credits toward the S&T Biomedical Engineering degree.	0 42 26 rs* 68

	Ceramic Eng	ineering	Group 2 Major Re	equirements	
	Kaskaskia College		Semester	Missouri S&T	
ENGL 102 or COMM 103	English Composition or Fundamentals of Speech Communication	3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech	3
ENGR 203	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
ENGR 205	Mechanics of Materials	3	CIV ENG 2210	Mechanics of Materials	3
CHEM 111	Chemistry I (Inorganic Chemistry)	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHEM 112	Chemistry II (Physical and Analytical)	5	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) *CHEM 1510 is not a degree requirement, transfers as general elective credit.	3
CHEM 208	Organic Chemistry I	5	CHEM 2210	Organic Chemistry I (3) and Lab* (1) Satisfies the advanced chemistry elective requirement. 'The lab is not a degree requirement, transfers as general elective credit.	3
	Humanities	, Arts, and Social	Sciences General Education Requi		
	6 hours I	Humanities and Fine	each group below, select 15 hours to in Arts from at least two specific discipline Sciences from at least two specific disci	s and	
	*At least one course must be selected from HI				
	, , , , , , , , , , , , , , , , , , , ,	Huma	inities and Fine Arts m at least two specific disciplines.		
LITO 201 or LITO 202 or LITO 204 or LITO 205 or LITO 139 or HIST 103* or HIST 104* or ARTO 105 or MUSC 107	British Literature Survey, Part I or British Literature Survey, Part II or American Literature or World Literature or History of the United States* or History of the United States* or Intro to Art or Music Appreciation "Satisfies the State of Missouri government requirement.	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or American Literature: 1865 to Present 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 "Satisfies the State of Missouri government requirement.	6
			al and Social Sciences		
HIST 101 or HIST 102* or GEOG 104 or PHLE 121 or PHLE 110 or POLS 101* or PSYH 101 or ECON 206 or ECON 205 or Foreign Language	History of Western Civilization or History of Western Civilization* or World Geography or Intro to Philosophy or Logic or American Government* or Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language "Satisfies the State of Missouri government requirement.	6	m at least two specific disciplines. HISTORY 1100 or HISTORY 1200* or HISTORY 2110 or PHILOS 1105 or PHILOS 1105 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	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 Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6
			Arts, and Social Sciences Select 3 hours.		
HASS Elective	Humanities, Arts, Social Sciences Elective: Any hi music, theater, English and technical communication philosophy, political science, psychology, economic etymology, or foreign language.	on,	HASS Elective	Humanities, Arts, Social Sciences Elective: Any history, art, music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	3
_	No free electives applied to the degree. Group 2 Major Requirements Group 1 Core Requirements	0 39 29 Total Hours 68		Maximum Free Electives Group 2 Major Requirements Group 1 Core Requirements Total Hours* *S&T advisor permission is required to transfer more than 68 credits toward the S&T Ceramic Engineering degree.	0 35 26 61

					neering or		
	Chemical Enginee						
	Gr	oup 2	Ma	ijor Re	equirements		
	Kaskaskia College			Semester		Missouri S&T	
COMM 103	Fundamentals of Speech Communication		3		SP&MS 1185	Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHEM 111	Chemistry I (Inorganic Chemistry)		5		CHEM 1310, 1319	General Chemistry I and Lab	5
CHEM 112	Chemistry II (Physical and Analytical)		5		CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis* (2) *CHEM 1510 is not a degree requirement, transfers as general elective credit.	3
CHEM 208	Organic Chemistry I		5		CHEM 2210, 2219*	Organic Chemistry I and Lab* *CHEM 2210 is a degree requirement. CHEM 2219 applies to the degree as 1 of 9 required science elective credits See note below.	4
CHEM 209 or BIOL 215 or CHEM 210	Organic Chemistry II (5) or Microbiology (4) or Biochemistry (5)		4		CHEM 2220 or BIO SCI 3313, 3319 or CHEM 4610, 4619	Organic Chemistry II (3) or Microbiology and Lab (5) or General Biochemistry and Lab (5) Applies to the degree as required science elective credits. Select up to 9 hours from these options or CHEM 2219 Organic Chemistry Lab.	8
CITP 155	Programming I		3		COMP SCI 1500	Computational Problem Solving	3
	From th 6 hours H 6 hours Be	e options listed Humanities and ehavioral and S	d in ea Fine ocial	ach group be Arts from at le Sciences fron	eneral Education Require elow, select 12 hours to inclu- east two specific disciplines a n at least two specific discipl	ude and ines.	
	*At least one course must be selected from HI				•	ate of Missouri government requirement.	
				nities and F	ne Arts specific disciplines.		
LITO 201 or LITO 202 or LITO 204 or LITO 205 or LITO 139 or HIST 103* or HIST 104* or ARTO 105 or MUSC 107	British Literature Survey, Part I or British Literature Survey, Part II or American Literature or American Literature or World Literature or History of the United States* or History of the United States* or Intro to Art or Music Appreciation *Satisfies the State of Missouri government requirement.		6		ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1310* or HISTORY 1310* or ART 1180 or MUSIC 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1800 to 1865 or American Literature: 1865 to Present or World Literature: 1865 to Present or American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
				al and Socia	al Sciences o specific disciplines.		
HIST 101 or HIST 102* or GEOG 104 or PHLE 121 or PHLE 110 or POLS 101* or PSYH 101 or ECON 206 or ECON 205 or Foreign Language	History of Western Civilization or History of Western Civilization* or World Geography or Intro to Philosophy or Logic or American Government* or Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	Scieut o nours	6	ii at least (WC	HISTORY 1100 or HISTORY 1200* or HISTORY 2110 or PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1100 or Foreign Language	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 Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6
	No free electives applied to the degree. Group 2 Major Requirements Group 1 Core Requirements		0 37 29 66			Maximum Free Electives Group 2 Major Requirements Group 1 Core Requirements Total Hours* *S&T advisor permission is required to transfer more than 68 credits toward the S&T Chemical Engineering degree.	0 38 26 64

	Civil Engine	ering	Gro	up 2 Major Requ	irements	
	Kaskaskia College		S	emester	Missouri S&T	
ENGL 102 or COMM 103	English Composition or Fundamentals of Speech Communication		3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech	3
CHEM 111	Chemistry I (Inorganic Chemistry)		5	CHEM 1310, 1319	General Chemistry I and Lab	5
PSCI 103	Geology		4	GEOLOGY 1110 (GEO ENG 1150)	Physical and Environmental Geology	3
ENGR 203	Statics		3	CIV ENG 2200	Engineering Mechanics-Statics	3
ENGR 204	Dynamics		3	MECH ENG 2350	Engineering Mechanics-Dynamics	2
ENGR 205	Mechanics of Materials		3	CIV ENG 2210	Mechanics of Materials	3
	From the 6 hours Hu	options listed manities and l avioral and Sc	in each Fine Art ocial Sci	iences General Education Requir n group below, select 15 hours to incl s from at least two specific disciplines ences from at least two specific discip 10, or POL SCI 1200 to satisfy the S	ude and lines.	
				ies and Fine Arts		
	S	elect 6 hours	from a	t least two specific disciplines.		
LITO 201 or LITO 202 or LITO 204 or LITO 205 or LITO 139 or HIST 103* or HIST 104* or ARTO 105 or MUSC 107	British Literature Survey, Part I or British Literature Survey, Part II or American Literature or American Literature or World Literature or World Literature or History of the United States* or History of the United States* or Intro to Art or Music Appreciation *Satisfies the State of Missouri government requirement.		6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1221 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or American Literature: 1600 to 1865 or American Literature: 1865 to Present 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 *Satisfies the State of Missouri government requirement.	6
				and Social Sciences		
HIST 101 or HIST 102* or GEOG 104 or PHLE 121 or PHLE 110 or POLS 101* or PSYH 101 or ECON 206 or ECON 205 or Foreign Language	History of Western Civilization or History of Western Civilization* or World Geography or Intro to Philosophy or Logic or American Government* or Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.		6	t least two specific disciplines. HISTORY 1100 or HISTORY 1200* or HISTORY 2110 or PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	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 Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6
		Humanit		ts, and Social Sciences ect 3 hours.		
HASS Elective	Humanities, Arts, Social Sciences Elective: Any hist music, theater, English and technical communication philosophy, political science, psychology, economics etymology, or foreign language.	,	3	ect 3 nours. HASS Elective	Humanities, Arts, Social Sciences Elective: Any history, art, music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	3
	No free electives applied to the degree.		0		Maximum Free Electives	0
	Group 2 Major Requirements Group 1 Core Requirements	:	36 29 65		Group 2 Major Requirements Group 1 Core Requirements Total Hours* *S&T advisor permission is required to transfer more than 69 credits toward the S&T Civil Engineering degree.	34 26 60

	Computer Er	ngineering	g Grou	p 2 Major Re	quirements	
	Kaskaskia College	· ·	Semester		Missouri S&T	
COMM 103	Fundamentals of Speech Communication	3	<u>ocinestei</u>	SPMS 1185	Principles of Speech	3
	•				Applies to degree as Gen Ed Communication requirement.	
CHEM 111 CITP 155	Chemistry I (Inorganic Chemistry)	5		CHEM 1310, 1319 COMP SCI 1500	General Chemistry I and Lab Computational Problem Solving	5 3
	Programming I	3			Engineering Mechanics-Statics (3) or	3
ENGR 203 or	Statics and			CIV ENG 2200 or	Engineering Mechanics-Oynamics (2) or	•
ENGR 204 or CHEM 208	Dynamics or Organic Chemistry I (5)	3		MECH ENG 2350 or CHEM 2210, 2219	Organic Chemistry I and Lab (4)	3
OF ILIVI 200	Organic Orientally 1 (3)			OF ILIVI 22 10, 22 13	Satisfies a required engineering/science elective.	
ENGR 210	Electrical Circuits	4		ELEC ENG 2100*, 2101	Circuits I* (3) and Circuit Analysis Lab (1) *A passing grade on the Missouri S&T EE Advancement Exam I is required to receive credit for ELEC ENG 2100.	4
MATH 236	Linear Algebra	3		MATH 3108	Linear Algebra Satisfies a required math elective.	3
	Humanit	es. Arts. and Socia	l Sciences Ge	eneral Education Require	·	
	6 hou	rs Humanities and Fin Behavioral and Socia	e Arts from at le al Sciences from	elow, select 15 hours to incluses two specific disciplines at least two specific disciple. SCI 1200 to satisfy the St	and ines.	
		Hum	anities and F	ine Arts		
		Select 6 hours fro	om at least two	specific disciplines.		
LITO 201 or	British Literature Survey, Part I or			ENGLISH 1211 or	British Literature I: The Beginnings to 1800 or	
LITO 202 or	British Literature Survey, Part II or			ENGLISH 1212 or	British Literature II: 1800 to Present	
LITO 204 or	American Literature or			ENGLISH 1221 or	American Literature: 1600 to 1865 or	
LITO 205 or LITO 139 or	American Literature or World Literature or			ENGLISH 1222 or ENGLISH 1231 or	American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance or	
HIST 103* or	History of the United States* or	6		HISTORY 1300* or	American History to 1877* or	6
HIST 104* or	History of the United States* or			HISTORY 1310* or	American History Since 1877* or	
ARTO 105 or	Intro to Art or			ART 1180 or	Art Appreciation or	
MUSC 107	Music Appreciation			MUSIC 1150	Music Understanding and Appreciation	
	*Satisfies the State of Missouri government requirement.	Robavio	oral and Socia	al Sciences	*Satisfies the State of Missouri government requirement.	
				specific disciplines.		
HIST 101 or	History of Western Civilization or	Coloct o floars in	om at loadt two	HISTORY 1100 or	Early Western Civilization or	
HIST 102* or	History of Western Civilization* or			HISTORY 1200* or	Modern Western Civilization* or	
GEOG 104 or	World Geography or			HISTORY 2110 or	World Regional Geography or	
PHLE 121 or	Intro to Philosophy or			PHILOS 1105 or	Self and World: Intro to Philosophy or	
PHLE 110 or	Logic or			PHILOS 1115 or	Logic and Reasoning: An Introduction or	
POLS 101* or PSYH 101 or	American Government* or	6		POL SCI 1200* or PSYCH 1101 or	American Government*or General Psychology or	6
ECON 206 or	Psychology or Principles of Microeconomics or			ECON 1100 or	Principles of Microeconomics or	
ECON 205 or	Principles of Macroeconomics or			ECON 1200 or	Principles of Macroeconomics or	
Foreign Language	Elementary or Intermediate Foreign Language			Foreign Language	Elementary or Intermediate Foreign Language	
	*Satisfies the State of Missouri government requirement.				*Satisfies the State of Missouri government requirement.	
		Humanities	s, Arts, and So Select 3 hour	ocial Sciences s.		
ENGL 102	English Composition	3		ENGLISH 1160	Writing and Research	3
Electives	Maximum Free Electives	3		Electives	Maximum Free Electives	3
	Group 2 Major Requirements	39			Group 2 Major Requirements	39
	Group 1 Core Requirements	29			Group 1 Core Requirements	26
		Total Hours 68			Total Hours *S&T advisor permission is required to transfer more than 68 credits toward the S&T Computer Engineering degree.	* 65

	Electrical Engineer	ing	Group	o 2 Major Req	uirements	
	Kaskaskia College		Semester		Missouri S&T	
COMM 103	Fundamentals of Speech Communication	3		SPMS 1185	Principles of Speech	3
CHEM 111	Chemistry I (Inorganic Chemistry)	5		CHEM 1310, 1319	Applies to degree as Gen Ed Communication requirement. General Chemistry I and Lab	5
CITP 155	Programming I	3		COMP SCI 1500	Computational Problem Solving	3
ENGR 203 and ENGR 204 BOTH of the courses above or ONE of the courses below. OR CHEM 208	Statics and Dynamics Both courses above combined or any one of the following courses will satisfy a required engineering science elective. OR Organic Chemistry I (5)	3		CIV ENG 2200 and MECH ENG 2350 BOTH of the courses above or ONE of the courses below. OR CHEM 2210	Engineering Mechanics-Statics (3) and Engineering Mechanics-Dynamics (2) Both courses above combined or any one of the following courses will satisfy a required engineering science elective. OR Organic Chemistry I and Lab (3) or	3
ENGR 210	Electrical Circuits	4		ELEC ENG 2100*, 2101	Circuits I* (3) and Circuit Analysis Lab (1) *A passing grade on the Missouri S&T EE Advancement Exam I is required to receive credit for ELEC ENG 2100.	4
MATH 236	Linear Algebra	3		MATH 3108	Linear Algebra	3
	6 hours Humanities a	and Fine d Social 0, 1300 ,	Arts from at le Sciences from 1310, or POL	•	d es.	
	Solant 6 ho		nities and Fi	ne Arts specific disciplines.		
LITO 201 or LITO 202 or LITO 204 or LITO 205 or LITO 139 or HIST 103* or HIST 104* or ARTO 105 or MUSC 107	British Literature Survey, Part I or British Literature Survey, Part II or American Literature or American Literature or World Literature or History of the United States* or History of the United States* or Intro to Art or Music Appreciation *Satisfies the State of Missouri government requirement.	6		ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1805 to Present or World Literature: 1865 to Present or World Literature: 1865 to Present or American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
	- -		al and Socia			
LUCT 404 av		ours fror	n at least two	specific disciplines.	Forly Western Civilization or	
HIST 101 or HIST 102* or GEOG 104 or PHLE 121 or PHLE 110 or POLS 101* or PSYH 101 or ECON 206 or ECON 205 or Foreign Language	History of Western Civilization or History of Western Civilization* or World Geography or Intro to Philosophy or Logic or American Government* or Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language "Satisfies the State of Missouri government requirement.	6		HISTORY 1100 or HISTORY 1200* or HISTORY 2110 or PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	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 Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6
	Huma		Arts, and So	ocial Sciences		
ENGL 102	English Composition	3	Select 3 nour	s. ENGLISH 1160	Writing and Research	3
Electives	Maximum Free Electives Group 2 Major Requirements Group 1 Core Requirements Total Hour	6 42 29 s 71		Electives	Maximum Free Electives Group 2 Major Requirements Group 1 Core Requirements Total Hours* *S&T advisor permission is required to transfer more than 68 credits toward the S&T Electrical Engineering degree.	6 42 26 68

	Engineering Ma	anagen	nent G	roup 2 Major	Requirements	
	Kaskaskia College		Seme	ester	Missouri S&T	
COMM 103	Fundamentals of Speech Communication		3	SPMS 1185	Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHEM 111	Chemistry I (Inorganic Chemistry)		5	CHEM 1310, 1319	General Chemistry I and Lab	5
ENGR 210	Electrical Circuits		4	ELEC ENG 2800	Electrical Circuits	3
ENGR 203	Statics		3	CIV ENG 2200	Engineering Mechanics-Statics	3
ENGR 204	Dynamics		3	MECH ENG 2350	Engineering Mechanics-Dynamics	2
ENGR 205	Mechanics of Materials	Auto and C	3	CIV ENG 2210 es General Education Requ	Mechanics of Materials	3
	From the 6 hours	ne options liste Humanities and Behavioral and S	d in each gro d Fine Arts fror Social Science	up below, select 15 hours to in m at least two specific discipline s from at least two specific disc	clude s and iplines.	
				and Fine Arts	3	
				st two specific disciplines.		
LITO 201 or LITO 202 or LITO 204 or LITO 205 or LITO 139 or HIST 103* or HIST 104* or ARTO 105 or MUSC 107	British Literature Survey, Part I or British Literature Survey, Part II or American Literature or American Literature or World Literature or History of the United States* or History of the United States* or Intro to Art or Music Appreciation *Satisfies the State of Missouri government requirement.		6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or American Literature: 1865 to Present 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 *Satisfies the State of Missouri government requirement.	6
	0.1.101			Social Sciences		
	Select 6 ho	ours from at lea	•	ic disciplines to include PSYC	;H 1101.	
PSYH 101	Psychology		3	PSYCH 1101	General Psychology Required	3
HIST 101 or HIST 102* or GEOG 104 or PHLE 121 or PHLE 110 or POLS 101* or ECON 206 or ECON 205 or Foreign Language	History of Western Civilization or History of Western Civilization* or World Geography or Intro to Philosophy or Logic or American Government* or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.		3	HISTORY 1100 or HISTORY 1200* or HISTORY 2110 or PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or ECON 1100 or ECON 1200 or Foreign Language	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 Principles of Microeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	3
		Human	ities, Arts, a	nd Social Sciences		
ENGL 102	English Composition		3	ENGLISH 1160	Writing and Research	3
	No free electives applied to the degree.		0	Electives	Maximum Free Electives	0
	Group 2 Major Requirements		36		Group 2 Major Requirements	34
	Group 1 Core Requirements	Total Hours	29 65		Group 1 Core Requirements Total Hours *S&T advisor permission is required to transfer more than 61 credits toward the S&T Engineering Management degree.	26 * 61

	Environmental E	ngineerir	ng Group 2 Maj	or Requirements	
	Kaskaskia College		<u>Semester</u>	Missouri S&T	
ENGL 102 or COMM 103	English Composition or Fundamentals of Speech Communication	3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech	3
PSCI 103	Geology	4	GEOLOGY 1110 (GEO ENG 1150)	Physical and Environmental Geology	3
CHEM 111	Chemistry I (Inorganic Chemistry)	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHEM 112	Chemistry II (Physical and Analytical)	5	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) *CHEM 1510 is not a degree requirement, transfers as general elective credit.	3
BIOL 101	Biology	4	BIO SCI 1113, 1219	 General Biology (3) and Lab* (1) *The lab is not a degree requirement, transfers as general elective credit. 	3
ENGR 203	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
ENGR 204	Dynamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics	2
ENGR 205	Mechanics of Materials	3	CIV ENG 2210	Mechanics of Materials	3
		navioral and Social S TORY 1200, 1300,	Arts from at least two specific discip Sciences from at least two specific of 1310, or POL SCI 1200 to satisfy the nities and Fine Arts	disciplines.	
	S	Select 6 hours from	at least two specific disciplines.		
LITO 201 or LITO 202 or LITO 204 or LITO 205 or LITO 139 or HIST 103* or HIST 104* or ARTO 105 or MUSC 107	British Literature Survey, Part I or British Literature Survey, Part II or American Literature or American Literature or World Literature or History of the United States* or History of the United States* or Intro to Art or Music Appreciation *Satisfies the State of Missouri government requirement.	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1223 or HISTORY 1300° or HISTORY 1310° or ART 1180 or MUSIC 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1800 to 1865 or American Literature: 1865 to Present or World Literature: 1865 to Present or World Literature: 1865 to Present or American History to 1877* or American History to 1877* or Art Appreciation or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
	0.1.401		al and Social Sciences	27077/1000	
			specific disciplines to include HIS	Modern Western Civilization*	
HIST 102*	History of Western Civilization* *Satisfies the State of Missouri government requirement.	3	HISTORY 1200*	*Satisfies the State of Missouri Government requirement.	3
PHLE 121 or PHLE 110 or POLS 101* or PSYH 101 or ECON 206 or ECON 205 or Foreign Language	Intro to Philosophy or Logic or American Government* or Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	3	PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government* or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	3
	No free electives applied to the degree.	0		Maximum Free Electives	0
	Group 2 Major Requirements Group 1 Core Requirements	42 29 Total Hours 71		Group 2 Major Requirements Group 1 Core Requirements Total Hou *S&T advisor permission is required to transfer more than 69 credits toward the S&T Environmental Engineering degree.	37 26 urs* 63

	Geological En	gineering G	roup 2 Major R	Requirements	
	Kaskaskia College	Sen	nester	Missouri S&T	
CHEM 111	Chemistry I (Inorganic Chemistry)	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CITP 155	Programming I	3	CS 1500	Computational Problem Solving	3
PSCI 103	Geology	4	GEO ENG 1150 (GEOLOGY 1110)	Physical and Environmental Geology	3
ENGR 203	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
ENGR 204	Dynamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics	2
ENGR 205	Mechanics of Materials	3	CIV ENG 2210	Mechanics of Materials	3
	Humanitie	s. Arts. and Social Scien	ces General Education Requi		
	6 hours	Humanities and Fine Arts fi Behavioral and Social Scien	roup below, select 15 hours to in om at least two specific discipline ces from at least two specific disci or POL SCI 1200 to satisfy the	es and iplines.	
LITO 201 or LITO 202 or LITO 204 or LITO 205 or LITO 139 or HIST 103* or HIST 104* or ARTO 105 or MUSC 107	British Literature Survey, Part I or British Literature Survey, Part II or American Literature or American Literature or World Literature or History of the United States* or Intro to Art or Music Appreciation *Satisfies the State of Missouri government requirement.	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1800 to 1865 or American Literature: 1865 to Present 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 *Satisfies the State of Missouri government requirement.	6
			d Social Sciences		
HIST 101 or HIST 102* or GEOG 104 or PHLE 121 or PHLE 110 or POLS 101* or PSYH 101 or ECON 206 or ECON 205 or Foreign Language	History of Western Civilization or History of Western Civilization* or World Geography or Intro to Philosophy or Logic or American Government* or Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6	Past two specific disciplines. HISTORY 1100 or HISTORY 1200* or HISTORY 2110 or PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	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 Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6
			and Social Sciences t 3 hours.		
HASS Elective	Humanities, Arts, Social Sciences Elective: Any music, theater, English and technical communica philosophy, political science, psychology, econom etymology, or foreign language.	tion,	HASS Elective	Humanities, Arts, Social Sciences Elective: Any history, art, music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	3
	No free electives applied to the degree. Group 2 Major Requirements Group 1 Core Requirements	0 36 29 Total Hours 65		Maximum Free Electives Group 2 Major Requirements Group 1 Core Requirements Total Hours *S&T advisor permission is required to transfer more than 65 credits toward the S&T Geological Engineering degree.	0 34 26 * 60

	Mechanical Eng	ineerin	g Grou	ıp 2 Major F	Requirements	
	Kaskaskia College		Semester	r	Missouri S&T	
ENGL 102 or COMM 103	English Composition or Fundamentals of Speech Communication	3		ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech	3
CHEM 111	Chemistry I (Inorganic Chemistry)	5		CHEM 1310*, 1319	General Chemistry I and Lab *CHEM 1310 will be substituted for CHEM 1305.	5
ENGR 210	Electrical Circuits	4		ELEC ENG 2800	Electrical Circuits	3
ENGR 203	Statics	3		CIV ENG 2200	Engineering Mechanics-Statics	3
ENGR 205	Mechanics of Materials	3		CIV ENG 2210	Mechanics of Materials	3
MATH 236	Linear Algebra	3		MATH 3108	Linear Algebra I Satisfies the Advanced Math/Statistics elective requirement.	3
	From the c 6 hours Hu	options listed in o manities and Fine avioral and Socia	each group be Arts from at le I Sciences fror	eneral Education Requelow, select 15 hours to in east two specific discipline at least two specific disc L SCI 1200 to satisfy the	clude s and iplines.	
			anities and F			
LITO 201 or LITO 202 or LITO 204 or LITO 205 or LITO 39 or HIST 103* or HIST 104* or ARTO 105 or MUSC 107	British Literature Survey, Part I or British Literature Survey, Part II or American Literature or American Literature or World Literature or World Literature or History of the United States* or History of the United States* or Intro to Art or Music Appreciation "Satisfies the State of Missouri government requirement.	6 Behavio	ral and Socia	o specific disciplines. ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1221 or ENGLISH 1221 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 al Sciences o specific disciplines.	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or American Literature: 1865 to Present 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 *Satisfies the State of Missouri government requirement.	6
HIST 101 or HIST 102* or GEOG 104 or PHLE 121 or PHLE 110 or POLS 101* or PSYH 101 or ECON 206 or ECON 205 or Foreign Language	History of Western Civilization or History of Western Civilization* or World Geography or Intro to Philosophy or Logic or American Government* or Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6		HISTORY 1100 or HISTORY 1200* or HISTORY 2110 or PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or ECON 1200 or FOCON 1200 or Foreign Language	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 Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6
		Humanities	, Arts, and S Select 3 hou	ocial Sciences		
HASS Elective	Humanities, Arts, Social Sciences Elective: Any hists music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	•	Select 3 nou	HASS Elective	Humanities, Arts, Social Sciences Elective: Any history, art, music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	3
	No free electives applied to the degree.	0			Maximum Free Electives	0
	Group 2 Major Requirements Group 1 Core Requirements	36 29 otal Hours 65			Group 2 Major Requirements Group 1 Core Requirements Total Hours* *S&T advisor permission is required to transfer more than 68 credits toward the S&T Mechanical Engineering degree.	35 26 61

	Metallurgical Er	ngineer	ing Gro	oup 2 Major	Requirements	
	Kaskaskia College		Semeste	r	Missouri S&T	
ENGL 102 or COMM 103	English Composition or Fundamentals of Speech Communication		3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech	3
ENGR 203	Statics		3	CIV ENG 2200	Engineering Mechanics-Statics	3
ENGR 205	Mechanics of Materials		3	CIV ENG 2210	Mechanics of Materials	3
CHEM 111	Chemistry I (Inorganic Chemistry)		5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHEM 112	Chemistry II (Physical and Analytical)		5	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) *CHEM 1510 is not a degree requirement, transfers as general elective credit.	3
CHEM 208 or ENGR 210	Organic Chemistry I or Electrical Circuits		4	CHEM 2210 or EE 2800	Organic Chemistry I or Electrical Circuits Not specifically required for the degree but will satisfy Out-of-Department Technical Elective Requirement.	3
	From the 6 hours H	e options listed Humanities and ehavioral and S	d in each group be Fine Arts from at ocial Sciences fro	deneral Education Requivelow, select 15 hours to in least two specific discipline m at least two specific discounts SCI 1200 to satisfy the	clude s and iplines.	
			lumanities and l	Fine Arts o specific disciplines.		
LITO 201 or LITO 202 or LITO 204 or LITO 205 or LITO 139 or HIST 103* or HIST 104* or ARTO 105 or MUSC 107	British Literature Survey, Part I or British Literature Survey, Part II or American Literature or American Literature or World Literature or History of the United States* or History of the United States* or Intro to Art or Music Appreciation *Satisfies the State of Missouri government requirement.		6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1800 to 1865 or American Literature: 1865 to Present 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 *Satisfies the State of Missouri government requirement.	6
			avioral and Soc			
HIST 101 or HIST 102* or GEOG 104 or PHLE 121 or PHLE 110 or POLS 101* or PSYH 101 or ECON 206 or ECON 205 or Foreign Language	History of Western Civilization or History of Western Civilization* or World Geography or Intro to Philosophy or Logic or American Government* or Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.		6	no specific disciplines. HISTORY 1100 or HISTORY 1200* or HISTORY 2110 or PHILOS 1105 or PHILOS 1105 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	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 Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6
		Humani	ties, Arts, and S Select 3 hou			
HASS Elective	Humanities, Arts, Social Sciences Elective: Any hi music, theater, English and technical communication philosophy, political science, psychology, economic etymology, or foreign language.	on,	3	HASS Elective	Humanities, Arts, Social Sciences Elective: Any history, art, music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	3
	Maximum Free Electives		3		Maximum Free Electives	3
	Group 2 Major Requirements Group 1 Core Requirements	Total Hours	41 29 70		Group 2 Major Requirements Group 1 Core Requirements Total Hours* *S&T advisor permission is required to transfer more than 68 credits toward the S&T Metallurgical Engineering degree.	38 26 64

	Mining Engir	neering Gro	up 2 Major Red	quirements	
	Kaskaskia College	Sem	ester	Missouri S&T	
ENGL 102 or COMM 103	English Composition or Fundamentals of Speech Communication	3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech	3
CHEM 111	Chemistry I (Inorganic Chemistry)	5	CHEM 1310, 1319	General Chemistry I and Lab	5
ENGR 203	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
ENGR 204	Dynamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics	2
ENGR 205	Mechanics of Materials	3	CIV ENG 2210	Mechanics of Materials	3
PSCI 103	Geology	4	GEOLOGY 1110 (GEO ENG 1150)	Physical and Environmental Geology	3
	From the 6 hours H	e options listed in each gro lumanities and Fine Arts fro chavioral and Social Science	ces General Education Requipment Delow, select 12 hours to in mat least two specific discipline as from at least two specific discort POL SCI 1200 to satisfy the	clude s and iplines.	
		Humanities	and Fine Arts		
		Select 6 hours from at lea	ast two specific disciplines.		
LITO 201 or LITO 202 or LITO 204 or LITO 205 or LITO 139 or HIST 103* or HIST 104* or ARTO 105 or MUSC 107	British Literature Survey, Part I or British Literature Survey, Part II or American Literature or American Literature or World Literature or Wistory of the United States* or History of the United States* or Intro to Art or Music Appreciation "satisfies the State of Missouri government requirement.	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or American Literature: 1865 to Present 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 38 distributes the State of Missouri government requirement.	6
		Behavioral and	Social Sciences		
		Select 6 hours from at lea	ast two specific disciplines.		
HIST 101 or HIST 102* or GEOG 104 or PHLE 121 or PHLE 110 or POLS 101* or PSYH 101 or ECON 206 or ECON 205 or Foreign Language	History of Western Civilization or History of Western Civilization* or World Geography or Intro to Philosophy or Logic or American Government* or Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6	HISTORY 1100 or HISTORY 1200* or HISTORY 2110 or PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	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 Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6
	No free electives applied to the degree.	0		Maximum Free Electives	0
	Group 2 Major Requirements Group 1 Core Requirements	33 29 Total Hours 62		Group 2 Major Requirements Group 1 Core Requirements Tota *S&T advisor permission is required to transfer more than 68 credits toward the Mining Engineering degree.	31 26 al Hours* 57 e S&T

	Nuclear Engir	neering	Group	2 Major Red	quirements	
	Kaskaskia College		Semester		Missouri S&T	
ENGL 102 or COMM 103	English Composition or Fundamentals of Speech Communication	3		ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech	3
CHEM 111	Chemistry I (Inorganic Chemistry)	5		CHEM 1310, 1319	General Chemistry I and Lab	5
MATH 236	Linear Algebra	3		MATH 3108	Linear Algebra I	3
ENGR 203	Statics	3		CIV ENG 2200	Engineering Mechanics-Statics	3
ENGR 205	Mechanics of Materials	3		CIV ENG 2210	Mechanics of Materials	3
ENGR 210	Electrical Circuits	4		ELEC ENG 2800	Electrical Circuits	3
	From the 6 hours Hu	options listed in umanities and Fin navioral and Socia	each group be e Arts from at le al Sciences from	eneral Education Requirelow, select 15 hours to incleast two specific disciplines at least two specific disciplines. SCI 1200 to satisfy the S	lude and lines.	
			nanities and F			
LITO 201 or LITO 202 or LITO 204 or LITO 205 or LITO 139 or HIST 103* or HIST 104* or ARTO 105 or MUSC 107	British Literature Survey, Part I or British Literature Survey, Part II or American Literature or American Literature or World Literature or History of the United States* or Intro to Art or Music Appreciation *Sattsfies the State of Missouri government requirement.	Select 6 hours fr	om at least two	o specific disciplines. ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1223 or ENGLISH 1231 or HISTORY 1300° or HISTORY 1310° or ART 1180 or MUSIC 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or American Literature: 1865 to Present 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 "Satisfies the State of Missouri government requirement.	6
			oral and Socia			
ECON 206 or	Principles of Microeconomics or	select 6 nours tr	om at least two	specific disciplines. ECON 1100 or	Principles of Microeconomics or	
ECON 200 01 ECON 205	Principles of Macroeconomics	3		ECON 1200	Principles of Macroeconomics	3
HIST 101 or HIST 102* or GEOG 104 or PHLE 121 or PHLE 110 or POLS 101* or PSYH 101 or Foreign Language	History of Western Civilization or History of Western Civilization* or World Geography or Intro to Philosophy or Logic or American Government* or Psychology or Elementary or Intermediate Foreign Language *Sattsfies the State of Missouri government requirement.	6		HISTORY 1100 or HISTORY 1200* or HISTORY 2110 or PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or Foreign Language	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.	3
		Humanities	s, Arts, and So Select 3 hour	ocial Sciences		
HASS Elective	Humanities, Arts, Social Sciences Elective: Any hist music, theater, English and technical communication philosophy, political science, psychology, economics etymology, or foreign language.	ì, ₃	23,000 0 11001	HASS Elective	Humanities, Arts, Social Sciences Elective: Any history, art, music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	3
	Maximum Free Electives	0			Maximum Free Electives	0
	Group 2 Major Requirements Group 1 Core Requirements	39 29 Total Hours 68			Group 2 Major Requirements Group 1 Core Requirements Total Hours* *S&T advisor permission is required to transfer more than 69 credits toward the S&T Nuclear Engineering degree.	35 26 61

		gineerinç	g Group 2 Major F	Requirements	
	Kaskaskia College		<u>Semester</u>	Missouri S&T	
ENGL 102 or	English Composition or	3	ENGLISH 1160 or	Writing and Research or	3
COMM 103 CHEM 111	Fundamentals of Speech Communication Chemistry I (Inorganic Chemistry)	5	SPMS 1185 CHEM 1310, 1319	Principles of Speech General Chemistry I and Lab	5
CITP 155	Programming I	3	CS 1500	Computational Problem Solving	3
PSCI 103	Geology	4	GEOLOGY 1110 (GEO ENG 1150)	Physical and Environmental Geology	3
ENGR 203	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
ENGR 204	Dynamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics	2
ENGR 205	Mechanics of Materials	3	CIV ENG 2210	Mechanics of Materials	3
2.1011200			Sciences General Education Requ		3
	6 hours	Humanities and Fine ehavioral and Socia STORY 1200, 1300	each group below, select 15 hours to it Arts from at least two specific disciplin Il Sciences from at least two specific dis- ty, 1310, or POL SCI 1200 to satisfy the anities and Fine Arts	es and ciplines.	
			om at least two specific disciplines.		
LITO 201 or LITO 202 or LITO 204 or LITO 205 or LITO 139 or HIST 103* or HIST 104* or ARTO 105 or MUSC 107	British Literature Survey, Part I or British Literature Survey, Part II or American Literature or American Literature or World Literature or History of the United States* or Intro to Art of the United States or Intro to Art of the United States or Music Appreciation *Satisfies the State of Missouri government requirement.	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1223 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or American Literature: 1865 to Present 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 'satisfies the State of Missouri government requirement.	6
			ral and Social Sciences		
HIST 101 or	History of Western Civilization or	Select 6 hours fro	om at least two specific disciplines. HISTORY 1100 or	Early Western Civilization or	
HIST 102* or GEOG 104 or PHLE 121 or PHLE 110 or POLS 101* or PSYH 101 or ECON 206 or ECON 205 or Foreign Language	History of Western Civilization* or World Geography or Intro to Philosophy or Logic or American Government* or Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6	HISTORY 1200* or HISTORY 2110 or PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	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 Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6
		Humanities	s, Arts, and Social Sciences Select 3 hours.		
HASS Elective	Humanities, Arts, Social Sciences Elective: Any h music, theater, English and technical communicati philosophy, political science, psychology, economi etymology, or foreign language.	on,	HASS Elective	Humanities, Arts, Social Sciences Elective: Any history, art, music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	3
	No free electives applied to the degree.	0		Maximum Free Electives	0
	Group 2 Major Requirements Group 1 Core Requirements	39 29 Total Hours 68		Group 2 Major Requirements Group 1 Core Requirements Total Hours* *S&T advisor permission is required to transfer more than 69 credits toward the S&T Petroleum Engineering degree.	37 26 63