Webster University — 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.

	Webster University	Seme	ster	Missouri S&T		
MATH 1610 and	Calculus I and	40	MATH 1214 and	Calculus I and		
MATH 1620	Calculus II	10	MATH 1215	Calculus II Grade of C or better is required for both courses.		4
MATH 3000	Calculus III	5	MATH 2222	Calculus III Grade of C or better is required.		4
MATH 2800	Differential Equations	3	MATH 3304	Elementary Differential Equations		3
PHYS 2030, 2031	University Physics I and Lab	4	PHYSICS 1135	Engineering Physics I Grade of C or better is required.		4
PHYS 2040, 2041	University Physics II and Lab	4	PHYSICS 2135	Engineering Physics II Grade of C or better is required.		4
WRIT 1010	The Craft of College Writing	3	ENGLISH 1120	Exposition and Argumentation		3
		Total Hours 29			Total Hours	22

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

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. information or updates are available from Missouri S&T Transfer Admissions at transfer.mst.edu, transfer@mst.edu, or 800-522-0938.

	Aerospace Eng	ineerin	g Grou	ıp 2 Major R	Requirements	
	Webster University		Semester	<u>[</u>	Missouri S&T	
SPMC 1040 or WRIT 3200	Public Speaking or Technical Writing	3		SPMS 1185 or ENGLISH 3560	Principles of Speech or Technical Writing	3
CHEM 1100, 1101	General Chemistry I and Lab	4		CHEM 1310*, 1319	General Chemistry I and Lab *CHEM 1310 will be substituted for CHEM 1305.	5
COSC 1550	Computer Programming I	3		CS 1971, 1981	Intro to Programming Method and Lab (C++)	3
PHIL 2110	Intro to Ethics or other engineering, business, bio, social ethics approved by advisor	3		PHILOS 1130	How Should I Live? An Introduction to Ethics or other engineering, business, bio, social ethics approved by advisor	3
	From the 6 hours Hu	options listed in manities and Fin avioral and Socia	each group be e Arts from at I al Sciences fror	eneral Education Requelow, select 15 hours to in east two specific discipline in at least two specific disc	clude s and iplines.	
	"At least one course must be selected from his		anities and F	•	State of Missouri government requirement.	
	S			o specific disciplines.		
ENGL 2020 or ENGL 2030 or HIST 1310* or HIST 1320* or MUSC 1050	Major British Writers I or Major British Writers II or Nineteenth-Century America* or Twentieth-Century United States* or Intro to Music Appreciation *Satisfies the State of Missouri government requirement.	6		ENGLISH 1211 or ENGLISH 1212 or HISTORY 1300* or HISTORY 1310* or MUSIC 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present or American History to 1877* or American History Since 1877* or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
	_		oral and Soci			
HIST 1100 or PHIL 1010 or PHIL 2010 or POLT 1060* or PSYC 1030 or ECON 2020 or ECON 2030 or Foreign Language	World Civilizations before 1500 or Intro to Philosophy or Informal Logic or Intro to American Politics* or Intro to Psychology* or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6		o specific disciplines. HISTORY 1100 or PHILOS 1105 or PHILOS 1115 or POL SCI 1200° or PSVCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Early Western Civilization 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 S Select 3 hou	ocial Sciences rs.		
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		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	28 29 Fotal Hours 57			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.	29 22 51

	Architectural E	ingineeri	ng Gro	up 2 Major R	equirements	
	Webster University		Semester		Missouri S&T	
SPMC 1040 or WRIT 3200	Public Speaking or Technical Writing	3		SPMS 1185 or ENGLISH 3560	Principles of Speech or Technical Writing	3
CHEM 1100, 1101	General Chemistry I and Lab	4		CHEM 1310*, 1319	General Chemistry I and Lab *CHEM 1310 will be substituted for CHEM 1305.	5
	From	the options listed is Humanities and Fir 3 hours B HISTORY 1200, 130	n each group be ne Arts from at le ehavioral and Sc	SCI 1200 to satisfy the Sta	e nd	
				specific disciplines.		
ENGL 2020 or ENGL 2030 or HIST 1310* or HIST 1320* or MUSC 1050	Major British Writers I or Major British Writers II or Nineteenth-Century America* or Twentieth-Century United States* or Intro to Music Appreciation 'Satisfies the State of Missouri government requirement.	6		ENGLISH 1211 or ENGLISH 1212 or HISTORY 1300* or HISTORY 1310* or MUSIC 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present or American History to 1877* or American History Since 1877* or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
		Behavi	oral and Socia	Il Sciences		
			Select 3 hour			
PHIL 1010 or PHIL 2010 or POLT 1060* or PSYC 1030 or ECON 2020 or ECON 2030 or Foreign Language	Intro to Philosophy or Informal Logic or Intro to American Politics* or Intro to 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	16 29 Total Hours 45)		Group 2 Major Requirements Group 1 Core Requirements Total Hour *S&T advisor permission is required to transfer more than 69 credits toward the S&T Architectural Engineering degree.	17 22 s* 39

			ering-Biomanufa jor Requirements		
	Webster University		<u>Semester</u>	Missouri S&T	
SPMC 1040	Public Speaking	3	SP&MS 1185	Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHEM 1100, 1101	General Chemistry I and Lab	4	CHEM 1310, 1319	General Chemistry I and Lab	5
CHEM 1110, 1111	General Chemistry II and Lab	4	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2)	3
CHEM 2100	Organic Chemistry I	3	CHEM 2210, 2219	*CHEM 1510 is not a degree requirement, transfers as general elective credit. Organic Chemistry I and Lab	4
CHEM 2110 or BIOL 1550, 1551 or BIOL 3050, 3051	Organic Chemistry II (3) or of Biology I and Lab (5) or Genetics and Lab (4)	Essentials 4	CHEM 2220, 2229 or BIO SCI 1113, 1219 or BIO SCI 2223	Organic Chemistry II and Lab or General Biology and Lab or General Genetics Applies to degree as Track Elective.	4
BIOL 3080, 3081	Cell Biology and Lab	4	BIO SCI 2213, 2219	Cell Biology and Lab	4
COSC 1550	Computer Programming I	3	CS 1971,1981*	Intro to Programming Methodology and Lab* (C++) *Course will be substituted for CS 1500.	3
	6 hours H	Humanities and Fine A chavioral and Social S STORY 1200, 1300, 1	ch group below, select 15 hours to inc kts from at least two specific disciplines ciciences from at least two specific discip 310, or POL SCI 1200 to satisfy the S ities and Fine Arts	and blines.	
			at least two specific disciplines.		
ENGL 2020 or ENGL 2030 or HIST 1310* or HIST 1320* or MUSC 1050	Major British Writers I or Major British Writers II or Nineteenth-Century America* or Twentieth-Century United States* or Intro to Music Appreciation 'Statisfies the State of Missouri government requirement.	6	ENGLISH 1211 or ENGLISH 1212 or HISTORY 1300* or HISTORY 1310* or MUSIC 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present or American History to 1877* or American History Since 1877* or Music Understanding and Appreciation 'Satisfies the State of Missouri government requirement.	6
	Satisfies the State of Missouri government requirement.	Behaviora	I and Social Sciences	Satisfies the State of Missouri government requirement.	
			specific disciplines to include PHILO		
PHIL 2340	Bioethics	3	PHILOS 3223	Bioethics	3
HIST 1100or POLT 1060* or PSYC 1030 or ECON 2020 or ECON 2030 or Foreign Language	World Civilizations before 1500 or Intro to American Politics* or Intro to Psychology* 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 POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Early Western Civilization 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
			Arts, and Social Sciences		
WRIT 3200	Technical Writing	ENGL 3	ISH 3560 required. ENGLISH 3560	Technical Writing	3
VIIII 0200	No free electives applied to the degree.	0	ENGLIGIT 3000	Maximum Free Electives	0
	Group 2 Major Requirements Group 1 Core Requirements	40 29 Total Hours 69		Maximum Free Electives 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.	41 22

			eering-Biomate or Requirements		
	Webster University	Se	mester_	Missouri S&T	
SPMC 1040	Public Speaking	3	SP&MS 1185	Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHEM 1100, 1101	General Chemistry I and Lab	4	CHEM 1310, 1319	General Chemistry I and Lab	5
CHEM 1110, 1111	General Chemistry II and Lab	4	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 2100	Organic Chemistry I	3	CHEM 2210, 2219*	Organic Chemistry I and Lab* *CHEM 2219 Lab applies to the degree as a Track Elective (non-engineering).	4
CHEM 2110	Organic Chemistry II	3	CHEM 2220, 2229*	Organic Chemistry II and Lab* CHEM 2229 Lab applies to the degree as a Track Elective (non-engineering).	4
BIOL 1550, 1551	Essentials of Biology I and Lab	5	BIO SCI 1113*, 1219*	General Biology* and Lab* *Applies to degree as Track Elective (Non-engineering).	4
BIOL 3080, 3081	Cell Biology and Lab	4	BIO SCI 2213, 2219	Cell Biology and Lab	4
COSC 1550	Computer Programming I	3	CS 1971,1981*	Intro to Programming Methodology and Lab* (C++) *Course will be substituted for CS 1500.	3
	From the 6 hours Hu	options listed in each umanities and Fine Arts navioral and Social Scien TORY 1200, 1300, 1310	•	lude and lines.	
	ç		s and Fine Arts least two specific disciplines.		
ENGL 2020 or ENGL 2030 or HIST 1310* or HIST 1320* or MUSC 1050	Major British Writers I or Major British Writers II or Nineteenth-Century America* or Twentieth-Century United States* or Intro to Music Appreciation *Satisfies the State of Missouri government requirement.	6	ENGLISH 1211 or ENGLISH 1212 or HISTORY 1300* or HISTORY 1310* or MUSIC 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present or American History to 1877* or American History Since 1877* or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
		Behavioral ar	nd Social Sciences		
	Select 6 hour		ecific disciplines to include PHILOS	S 3223.	
PHIL 2340	Bioethics	3	PHILOS 3223	Bioethics	3
HIST 1100or POLT 1060* or PSYC 1030 or ECON 2020 or ECON 2030 or Foreign Language	World Civilizations before 1500 or Intro to American Politics* or Intro to Psychology* 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 POL SCI 1200° or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Early Western Civilization 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
			s, and Social Sciences I 3560 required.		
WRIT 3200	Technical Writing	3	ENGLISH 3560	Technical Writing	3
	No free electives applied to the degree. Group 2 Major Requirements Group 1 Core Requirements	0 44 29 Total Hours 73		Maximum Free Electives Group 2 Major Requirements Group 1 Core Requirements Total Hour *S&T advisor permission is required to transfer more than 69 credits toward the S&T Biomedical Engineering degree.	0 45 22

	Ceramic Eng	jineering	g Group	2 Major Re	quirements	
	Webster University		Semester	•	Missouri S&T	
SPMC 1040 or WRIT 3200 CHEM 1100, 1101	Public Speaking or Technical Writing General Chemistry I and Lab		3	SPMS 1185 or ENGLISH 3560 CHEM 1310, 1319	Principles of Speech or Technical Writing General Chemistry I and Lab	3
CHEM 1110, 1111	General Chemistry II and Lab		4	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 2100 or CHEM 4100	Organic Chemistry I (3) or Inorganic Chemistry (3)	;	3	CHEM 2210, 2219* or CHEM 3310	Organic Chemistry I (3) and Lab* (1) or Inorganic Chemistry I (3) Satisfies the advanced chemistry elective requirement. The lab is not a degree requirement, transfers as general elective credit.	3
	From the first transfer of the first transfe	he options listed i Humanities and F Behavioral and So	in each group be ine Arts from at le cial Sciences fror	eneral Education Requirelow, select 15 hours to inceest two specific disciplines at least two specific disciplines. SCI 1200 to satisfy the S	lude and lines.	
			manities and F	ine Arts o specific disciplines.		
ENGL 2020 or ENGL 2030 or HIST 1310* or HIST 1320* or MUSC 1050	Major British Writers I or Major British Writers II or Nineteenth-Century America* or Twentieth-Century United States* or Intro to Music Appreciation *Satisfies the State of Missouri government requirement.		3	ENGLISH 1211 or ENGLISH 1212 or HISTORY 1300* or HISTORY 1310* or MUSIC 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present or American History to 1877* or American History Since 1877* or Music Understanding and Appreciation 'Satisfies the State of Missouri government requirement.	6
			ioral and Soci			
HIST 1100 or PHIL 1010 or PHIL 2010 or POLT 1060* or PSYC 1030 or ECON 2020 or ECON 2030 or Foreign Language	World Civilizations before 1500 or Intro to Philosophy or Informal Logic or Intro to American Politics* or Intro to Psychology* or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.		from at least two	o specific disciplines. HISTORY 1100 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 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
		Humaniti	es, Arts, and S Select 3 hou			
HASS Elective	Humanities, Arts, Social Sciences Elective: Any I music, theater, English and technical communical philosophy, political science, psychology, econom etymology, or foreign language.	tion,	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
	No free electives applied to the degree. Group 2 Major Requirements Group 1 Core Requirements	2	0 9 9 8		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 29 22 51

	Chemical Engineering	- Bi	ochen		ering Emphasis	
	Group	2 Ma	ajor Re	equirements		
	Webster University		Semester		Missouri S&T	
SPMC 1040	Public Speaking	3		SP&MS 1185	Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHEM 1100, 1101	General Chemistry I and Lab	4		CHEM 1310, 1319	General Chemistry I and Lab	5
CHEM 1110, 1111	General Chemistry II and Lab	4		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 2100	Organic Chemistry I	3		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 2110 or CHEM 3300, 3301 or BIOL 3080, 3081 or CHEM 3100, 3101, 3111	Organic Chemistry II (3) or Analytical Chemistry and Lab (4) Cell Biology and Lab or Biochemistry I with Lab AND Biochemistry II Lab* "CHEM 3110 Biochemistry II is not an S&T degree requirement. If taken, will transfer a	4 s		CHEM 2220 or CHEM 2510 or BIO SCI 2213, 2219 or CHEM 4610, 4619	Organic Chemistry II (3) or Analytical Chemistry (4) or Cell Biology and Lab (4)) 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
COSC 1550	Computer Programming I	3		CS 1971,1981*	Intro to Programming Methodology and Lab* (C++) *Course will be substituted for CS 1500.	3
	From the options 6 hours Humanities	listed in e and Fine and Social 200, 1300,	ach group be Arts from at le Sciences fron		de nd nes.	
	Select 6			specific disciplines.		
ENGL 2020 or ENGL 2030 or HIST 1310* or HIST 1320* or MUSC 1050	Major British Writers I or Major British Writers II or Nineteenth-Century America* or Twentieth-Century United States* or Intro to Music Appreciation *Satisfies the State of Missouri government requirement.	6		ENGLISH 1211 or ENGLISH 1212 or HISTORY 1300* or HISTORY 1310* or MUSIC 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present or American History to 1877* or American History Since 1877* or Music Understanding and Appreciation 'Satisfies the State of Missouri government requirement.	6
			al and Socia			
HIST 1100 or PHIL 1010 or PHIL 2010 or POLT 1060* or PSYC 1030 or ECON 2020 or ECON 2030 or Foreign Language	World Civilizations before 1500 or Intro to Philosophy or Informal Logic or Intro to American Politics* or Intro to Psychology* or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6		o specific disciplines. HISTORY 1100 or PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSVCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Early Western Civilization 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
	Hu			ocial Sciences		
WRIT 3200	Technical Writing	ENG 3	LISH 3560 re	equirea. ENGLISH 3560	Technical Writing	3
	No free electives applied to the degree.	0			Maximum Free Electives	0
	Group 1 Core Requirements Total Ho	36 29			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.	41 22 63

	Civil Engine	ering	Group 2	Major Requ	uirements	
	Webster University		Semeste	<u>r</u>	Missouri S&T	
SPMC 1040 or WRIT 3200	Public Speaking or Technical Writing		3	SPMS 1185 or ENGLISH 3560	Principles of Speech or Technical Writing	3
CHEM 1100, 1101	General Chemistry I and Lab		4	CHEM 1310, 1319	General Chemistry I and Lab	5
	From the 6 hours H	options liste lumanities and havioral and S TORY 1200,	d in each group be I Fine Arts from at I Social Sciences fror	•	clude s and plines.	
		Select 6 hour	rs from at least tw	o specific disciplines.		
ENGL 2020 or ENGL 2030 or HIST 1310* or HIST 1320* or MUSC 1050	Major British Writers I or Major British Writers II or Nineteenth-Century America* or Twentieth-Century United States* or Intro to Music Appreciation 'Satisfies the State of Missouri government requirement.		6	ENGLISH 1211 or ENGLISH 1212 or HISTORY 1300* or HISTORY 1310* or MUSIC 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present or American History to 1877* or American History Since 1877* or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
	• • • • • • • • • • • • • • • • • • •	Beh	avioral and Soci	al Sciences	•	
		Select 6 hour	s from at least tw	o specific disciplines.		
HIST 1100 or PHIL 1010 or PHIL 2010 or POLT 1060* or PSYC 1030 or ECON 2020 or ECON 2030 or Foreign Language	World Civilizations before 1500 or Intro to Philosophy or Informal Logic or Intro to American Politics* or Intro to 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 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 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
		Human	ities, Arts, and S			
HASS Elective	Humanities, Arts, Social Sciences Elective: Any his music, theater, English and technical communicatic philosophy, political science, psychology, economic etymology, or foreign language.	n,	Select 3 hou	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	Total Hours	0 22 29 51		Maximum Free Electives 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.	0 23 22 45

	Computer En	gineering	Grou	p 2 Major R	Requirements	
	Webster University		Semester		Missouri S&T	
SPMC 1040	Public Speaking	3		SPMS 1185	Principles of Speech	3
CHEM 1100, 1101	General Chemistry I and Lab	4		CHEM 1310, 1319	Applies to degree as Gen Ed Communication requirement. General Chemistry I and Lab	5
COSC 1550	Computer Programming I	3		CS 1971,1981*	Intro to Programming Methodology and Lab* (C++) *Course will be substituted for CS 1500.	3
CHEM 2100 or BIOL 3080 or BIOL 3050, 3051	Organic Chemistry I (3) or Cell Biology (3) or Genetics and Lab (4)	3		CHEM 2210 or BIO SCI 2213 or BIO SCI 2223	Organic Chemistry I (3) or Cell Biology (3) or General Genetics (3) Satisfies a required engineering/science elective.	3
	From t 6 hours	he options listed in e Humanities and Fine Behavioral and Social	each group be Arts from at le Sciences from	eneral Education Requilow, select 15 hours to interest two specific disciplinate at least two specific disc. SCI 1200 to satisfy the	nclude es and ciplines.	
			nities and F	ne Arts specific disciplines.		
ENGL 2020 or ENGL 2030 or HIST 1310* or HIST 1320* or MUSC 1050	Major British Writers I or Major British Writers II or Nineteenth-Century America* or Twentieth-Century United States* or Intro to Music Appreciation *Satisfies the State of Missouri government requirement.	6		ENGLISH 1211 or ENGLISH 1212 or HISTORY 1300* or HISTORY 1310* or MUSIC 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present or American History to 1877* or American History Since 1877* or Music Understanding and Appreciation 'Satisfies the State of Missouri government requirement.	6
			ral and Socia	I Sciences specific disciplines.		
HIST 1100 or PHIL 1010 or PHIL 2010 or POLT 1060* or PSYC 1030 or ECON 2020 or ECON 2030 or Foreign Language	World Civilizations before 1500 or Intro to Philosophy or Informal Logic or Intro to American Politics* or Intro to 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 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 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 So Select 3 hour	ocial Sciences		
WRIT 3200	Technical Writing	3		ENGLISH 3560	Technical Writing	3
Electives	Maximum Free Electives Group 2 Major Requirements Group 1 Core Requirements	3 31 29 Total Hours 60		Electives	Maximum Free Electives Group 2 Major Requirements Group 1 Core Requirements Total Hour *\$AT advisor permission is required to transfer more than 68 credits toward the S&T Computer Engineering degree.	3 32 22 rs* 54

	Electrical Eng	jineering	Group	2 Major R	equirements	
	Webster University		Semester		Missouri S&T	
SPMC 1040	Public Speaking	3		SPMS 1185	Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHEM 1100, 1101	General Chemistry I and Lab	4		CHEM 1310, 1319	General Chemistry I and Lab	5
COSC 1550	Computer Programming I	3		CS 1971,1981*	Intro to Programming Methodology and Lab* (C++) *Course will be substituted for CS 1500.	3
CHEM 2100 or BIOL 3080 or BIOL 3050, 3051	Organic Chemistry I (3) or Cell Biology (3) or Genetics and Lab (4)	3		CHEM 2210 or BIO SCI 2213 or BIO SCI 2223	Organic Chemistry I (3) or Cell Biology (3) or General Genetics (3) Satisfies a required regimeering/science elective.	3
	From th 6 hours	e options listed in e Humanities and Fine ehavioral and Social	each group be Arts from at le Sciences from	eneral Education Requelow, select 15 hours to interest two specific disciplined at least two specific disc. SCI 1200 to satisfy the	nclude es and ciplines.	
		Huma	nities and Fi	ine Arts	·	
		Select 6 hours from	m at least two	specific disciplines.		
ENGL 2020 or ENGL 2030 or HIST 1310* or HIST 1320* or MUSC 1050	Major British Writers I or Major British Writers II or Nineteenth-Century America* or Twentieth-Century United States* or Intro to Music Appreciation *Satisfes the State of Missouri government requirement.	6		ENGLISH 1211 or ENGLISH 1212 or HISTORY 1300* or HISTORY 1310* or MUSIC 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present or American History to 1877* or American History Since 1877* or Music Understanding and Appreciation 'Satisfies the State of Missouri government requirement.	6
			al and Socia			
		Select 6 hours from	m at least two	specific disciplines.		
HIST 1100 or PHIL 1010 or PHIL 2010 or POLT 1060* or PSYC 1030 or ECON 2020 or ECON 2030 or Foreign Language	World Civilizations before 1500 or Intro to Philosophy or Informal Logic or Intro to American Politics* or Intro to 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 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 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
				ocial Sciences		
WRIT 3200	Technical Writing	3	Select 3 hour	s. ENGLISH 3560	Technical Writing	3
Electives	Maximum Free Electives Group 2 Major Requirements Group 1 Core Requirements	6 34 29 Total Hours 63		Electives	Maximum Free Electives Group 2 Major Requirements Group 1 Core Requirements Total Hou *S&T advisor permission is required to transfer more than 68 credits toward the S&T	6 3! 2:

	Engineering Ma	nagement (Group 2 Major	Requirements	
	Webster University	Sen	nester	Missouri S&T	
SPMC 1040	Public Speaking	3	SPMS 1185	Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHEM 1100, 1101 COSC 1550	General Chemistry I and Lab Computer Programming I	4 3	CHEM 1310, 1319 CS 1971,1981	General Chemistry I and Lab Intro to Programming Methodology and Lab* (C++)	5 3
	From the 6 hours Hi	options listed in each g umanities and Fine Arts f navioral and Social Scien TORY 1200, 1300, 1310,	•	clude s and iplines.	
	ç		s and Fine Arts east two specific disciplines.		
ENGL 2020 or ENGL 2030 or HIST 1310* or HIST 1320* or MUSC 1050	Major British Writers I or Major British Writers II or Nineteenth-Century America* or Twentieth-Century United States* or Intro to Music Appreciation *Satisfies the State of Missouri government requirement.	6	ENGLISH 1211 or ENGLISH 1212 or HISTORY 1300* or HISTORY 1310* or MUSIC 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present or American History to 1877* or American History Since 1877* or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
	Select 6 hour		d Social Sciences cific disciplines to include PSYC	CH 1101	
PSYC 1030	Intro to Psychology	3	PSYCH 1101	General Psychology Required	3
HIST 1100 or PHIL 1010 or PHIL 2010 or POLT 1060* or ECON 2020 or ECON 2030 or Foreign Language	World Civilizations before 1500 or Intro to Philosophy or Informal Logic or Intro to American Politics* 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 PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or ECON 1100 or ECON 1200 or Foreign Language	Early Western Civilization or Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction 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
			and Social Sciences		
WRIT 3200	Technical Writing	3	ENGLISH 3560	Technical Writing	3
_	No free electives applied to the degree. Group 2 Major Requirements Group 1 Core Requirements	0 25 29 Total Hours 54	Electives	Maximum Free Electives Group 2 Major Requirements Group 1 Core Requirements Total Hot *S&T advisor permission is required to transfer more than 61 credits toward the S&T Engineering Management degree.	0 26 22 urs* 61

	Environmental	Enginee	ring	Group 2 Major	Requirements	
	Webster University		Ser	nester	Missouri S&T	
SPMC 1040 or WRIT 3200 CHEM 1100, 1101	Public Speaking or Technical Writing General Chemistry I and Lab		3	SPMS 1185 or ENGLISH 3560 CHEM 1310, 1319	Principles of Speech or Technical Writing General Chemistry I and Lab	3 5
CHEM 1110, 1111	General Chemistry II and Lab		4	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 1550, 1551	Essentials of Biology and Lab		5	BIO SCI 1113, 1219*	General Biology (3) and Lab* (1) *The lab is not a degree requirement, transfers as general elective credit.	3
	From	n the options listed rs Humanities and F 3 hours	d in each of Fine Arts f Behaviora	group below, select 9 hours to inclu from at least two specific disciplines a al and Social Sciences.	de and	
	At least one course must be selected from			s and Fine Arts	ate of Missouri government requirement.	
				east two specific disciplines.		
ENGL 2020 or ENGL 2030 or HIST 1310* or HIST 1320* or MUSC 1050	Major British Writers I or Major British Writers II or Nineteenth-Century America* or Twentieth-Century United States* or Intro to Music Appreciation *Satisfies the State of Missouri government requirement.		6	ENGLISH 1211 or ENGLISH 1212 or HISTORY 1300* or HISTORY 1310* or MUSIC 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present or American History to 1877* or American History Since 1877* or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
		Beha		d Social Sciences		
PHIL 1010 or PHIL 2010 or POLT 1060* or PSYC 1030 or ECON 2020 or ECON 2030 or Foreign Language	Intro to Philosophy or Informal Logic or Intro to American Politics* or Intro to Psychology* or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.		Select	ct 3 hours. 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. Group 2 Major Requirements Group 1 Core Requirements	:	0 25 29 54		Maximum Free Electives 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 Environmental Engineering degree.	0 23 22 45

	Geological Eng	gineeri	ng Groւ	ıp 2 Major R	equirements	
	Webster University		Semeste	r	Missouri S&T	
WRIT 3200	Technical Writing		3	ENGLISH 3560	Technical Writing	3
CHEM 1100, 1101 COSC 1550	General Chemistry I and Lab Computer Programming I		4	CHEM 1310, 1319 CS 1971,1981	Applies to degree as Gen Ed Communication requirement. General Chemistry I and Lab Intro to Programming Methodology and Lab* (C++)	5
330	Humanities, From the 6 hours H	options listed umanities and l havioral and So	cial Sciences G in each group b Fine Arts from at locial Sciences from	eneral Education Requirelow, select 15 hours to incleast two specific disciplines mat least two specific disciplines	rements lude and blines.	3
			umanities and F			
ENGL 2020 or ENGL 2030 or HIST 1310* or HIST 1320* or MUSC 1050	Major British Writers I or Major British Writers II or Nineteenth-Century America* or Twentieth-Century United States* or Intro to Music Appreciation *Satisfies the State of Missouri government requirement.		from at least tw	o specific disciplines. ENGLISH 1211 or ENGLISH 1212 or HISTORY 1300° or HISTORY 1310° or MUSIC 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present or American History to 1877* or American History Since 1877* or Music Understanding and Appreciation 'Satisfies the State of Missouri government requirement.	6
			vioral and Soci			
HIST 1100 or PHIL 1010 or PHIL 2010 or POLT 1060* or PSYC 1030 or ECON 2020 or ECON 2030 or Foreign Language	World Civilizations before 1500 or Intro to Philosophy or Informal Logic or Intro to American Politics* or Intro to Psychology* or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.		6	o specific disciplines. HISTORY 1100 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 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	ies, Arts, and S Select 3 hou			
HASS Elective	Humanities, Arts, Social Sciences Elective: Any his music, theater, English and technical communication philosophy, political science, psychology, economic etymology, or foreign language.	n,	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
	No free electives applied to the degree. Group 2 Major Requirements Group 1 Core Requirements		0 25 29 54		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 26 22 48

	Mechanical En	gineering G	roup 2 Major R	Requirements	
	Webster University	<u>Sem</u>	<u>ester</u>	Missouri S&T	
SPMC 1040 or WRIT 3200	Public Speaking or Technical Writing	3	SPMS 1185 or ENGLISH 3560	Principles of Speech or Technical Writing	3
CHEM 1100, 1101	General Chemistry I and Lab	4	CHEM 1310*, 1319	General Chemistry I and Lab *CHEM 1310 will be substituted for CHEM 1305.	5
COSC 1550	Computer Programming I	3	CS 1971,1981	Intro to Programming Methodology and Lab* (C++)	3
	From the 6 hours H	e options listed in each gro lumanities and Fine Arts fro havioral and Social Science	ses General Education Requi oup below, select 15 hours to inc m at least two specific disciplines as from at least two specific disci or POL SCI 1200 to satisfy the	clude s and plines.	
			and Fine Arts		
51101 0000		Select 6 hours from at lea	ast two specific disciplines.	D. W. L. L. W. L. T. D. L. L. 4000	
ENGL 2020 or ENGL 2030 or HIST 1310* or HIST 1320* or MUSC 1050	Major British Writers I or Major British Writers II or Nineteenth-Century America* or Twentieth-Century United States* or Intro to Music Appreciation *Satisfies the State of Missouri government requirement.	6	ENGLISH 1211 or ENGLISH 1212 or HISTORY 1300* or HISTORY 1310* or MUSIC 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present or American History to 1877* or American History Since 1877* or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
		Behavioral and	Social Sciences		
		Select 6 hours from at lea	ast two specific disciplines.		
HIST 1100 or PHIL 1010 or PHIL 2010 or POLT 1060° or PSYC 1030 or ECON 2020 or ECON 2030 or Foreign Language	World Civilizations before 1500 or Intro to Philosophy or Informal Logic or Intro to American Politics* or Intro to 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 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 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		
	Humanities, Arts, Social Sciences Elective: Any his		3 hours.	Humanities, Arts, Social Sciences Elective: Any history, art,	
HASS Elective	Humanities, Arts, Social Sciences Elective: Any his music, theater, English and technical communicatio philosophy, political science, psychology, economic etymology, or foreign language.	n, a	HASS Elective	numanities, Aris, 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	25 29 Total Hours 54		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.	26 22 48

	Metallurgical Er	ngineerii	ng Gro	oup 2 Major	Requirements	
	Webster University		Semester		Missouri S&T	
SPMC 1040 or WRIT 3200 CHEM 1100, 1101	Public Speaking or Technical Writing General Chemistry I and Lab	3		SPMS 1185 or ENGLISH 3560 CHEM 1310, 1319	Principles of Speech or Technical Writing General Chemistry I and Lab	3 5
CHEM 1110, 1111	General Chemistry II and Lab	4		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 2100 or CHEM 4100	Organic Chemistry I or Inorganic Chemistry (3)	3		CHEM 2210 or CHEM 3310	Organic Chemistry I (3) or Inorganic Chemistry I (3) Not specifically required for the degree but will satisfy out-of-department technical elective requirement	3
	From th 6 hours	ne options listed in Humanities and Fir tehavioral and Soci	each group be le Arts from at le al Sciences fron	eneral Education Requi elow, select 15 hours to inc east two specific disciplines n at least two specific discip L SCI 1200 to satisfy the S	elude and olines.	
			nanities and F om at least two	ine Arts o specific disciplines.		
ENGL 2020 or ENGL 2030 or HIST 1310* or HIST 1320* or MUSC 1050	Major British Writers I or Major British Writers II or Nineteenth-Century America* or Twentieth-Century United States* or Intro to Museic Appreciation *Satisfies the State of Missouri government requirement.	6		ENGLISH 1211 or ENGLISH 1212 or HISTORY 1300* or HISTORY 1310* or MUSIC 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present or American History to 1877* or American History Since 1877* or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
			oral and Socia	al Sciences o specific disciplines.		
HIST 1100 or PHIL 1010 or PHIL 2010 or POLT 1060* or PSYC 1030 or ECON 2020 or ECON 2030 or Foreign Language	World Civilizations before 1500 or Intro to Philosophy or Informal Logic or Intro to American Politics* or Intro to Psychology* or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6	om at least two	HISTORY 1100 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 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
		Humanitie	s, Arts, and Se Select 3 hour	ocial Sciences		
HASS Elective	Humanities, Arts, Social Sciences Elective: Any h music, theater, English and technical communicati philosophy, political science, psychology, economi etymology, or foreign language.	ion,		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 Group 2 Major Requirements Group 1 Core Requirements	3 32 29 Total Hours 61			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 Metallurgical Engineering degree.	3 32 22 54

	Mining Eng	ineering Grou	p 2 Major Red	quirements	
	Webster University	Seme	ster	Missouri S&T	
SPMC 1040 or WRIT 3200 CHEM 1100, 1101	Public Speaking or Technical Writing General Chemistry I and Lab	3	SPMS 1185 or ENGLISH 3560 CHEM 1310, 1319	Principles of Speech or Technical Writing General Chemistry I and Lab	3
OTIENT 1100, 1101	,	es, Arts, and Social Science		,	
	From 6 hour	the options listed in each grous s Humanities and Fine Arts from Behavioral and Social Sciences	up below, select 12 hours to in a at least two specific discipline from at least two specific disci	clude s and plines.	
		Humanities a	nd Fine Arts		
		Select 6 hours from at least	t two specific disciplines.		
ENGL 2020 or ENGL 2030 or HIST 1310* or HIST 1320* or MUSC 1050	Major British Writers I or Major British Writers II or Nineteenth-Century America* or Twentieth-Century United States* or Intro to Music Appreciation *Satisfies the State of Missouri government requirement.	6	ENGLISH 1211 or ENGLISH 1212 or HISTORY 1300* or HISTORY 1310* or MUSIC 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present or American History to 1877* or American History Since 1877* or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
		Behavioral and S	Social Sciences		
		Select 6 hours from at leas	t two specific disciplines.		
HIST 1100 or PHIL 1010 or PHIL 2010 or POLT 1060* or PSYC 1030 or ECON 2020 or ECON 2030 or Foreign Language	World Civilizations before 1500 or Intro to Philosophy or Informal Logic or Intro to American Politics* or Intro to 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 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 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	19 29 Total Hours 48		Group 2 Major Requirements Group 1 Core Requirements *S&T advisor permission is required to transfer more than 68 credits towar Mining Engineering degree.	20 22 Total Hours* 42 and the S&T

	Nuclear Engine	ering Gro	oup 2 Major Re	equirements	
	Webster University	Sem	ester	Missouri S&T	
SPMC 1040 or	Public Speaking or	3	SPMS 1185 or	Principles of Speech or	3
WRIT 3200	Technical Writing		ENGLISH 3560	Technical Writing	
CHEM 1100, 1101	General Chemistry I and Lab	4	CHEM 1310, 1319	General Chemistry I and Lab	5
COSC 1550	Computer Programming I	3	CS 1971,1981	Intro to Programming Methodology and Lab* (C++)	3
	From the option 6 hours Human	ons listed in each gi ities and Fine Arts fr ral and Social Scienc Y 1200, 1300, 1310,	•	nclude es and eiplines.	
	Selec		and Fine Arts ast two specific disciplines.		
ENGL 2020 or ENGL 2030 or HIST 1310* or HIST 1320* or MUSC 1050	Major British Writers I or Major British Writers II or Nineteenth-Century America* or Twentieth-Century United States* or Intro to Music Appreciation *Satisfies the State of Missouri government requirement.	6	ENGLISH 1211 or ENGLISH 1212 or HISTORY 1300* or HISTORY 1310* or MUSIC 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present or American History to 1877* or American History Since 1877* or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
	Solos		I Social Sciences ast two specific disciplines.		
ECON 2020 or ECON 2030	Principles of Microeconomics or Principles of Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
HIST 1100 or PHIL 1010 or PHIL 2010 or POLT 1060* or PSYC 1030 or Foreign Language	World Civilizations before 1500 or Intro to Philosophy or Informal Logic or Intro to American Politics* or Intro to Psychology* or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	3	HISTORY 1100or PHILOS 1105 or PHILOS 1115 or POL SCI 1200° or PSYCH 1101 or Foreign Language	Early Western Civilization 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
		, ,	and Social Sciences		
HASS Elective	Humanities, Arts, Social Sciences Elective: Any history, music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.		3 hours. 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 Tota	25 29 Hours 54		Group 2 Major Requirements Group 1 Core Requirements Total Hour *S&T advisor permission is required to transfer more than 69 credits toward the S&T Nuclear Engineering degree.	26 22 rs* 48

	Petroleum Eng	ineeri	ing	Group 2 Major Re	quirements	
	Webster University		9	Semester	Missouri S&T	
SPMC 1040 or WRIT 3200	Public Speaking or Technical Writing		3	SPMS 1185 or ENGLISH 3560	Principles of Speech or Technical Writing	3
CHEM 1100, 1101	General Chemistry I and Lab		4	CHEM 1310, 1319	General Chemistry I and Lab	5
	From the 6 hours H	options liste umanities and navioral and S TORY 1200,	ed in ead d Fine A Social S 1300, 1	ciences General Education Require ch group below, select 15 hours to inclu its from at least two specific disciplines ciences from at least two specific discipline 310, or POL SCI 1200 to satisfy the Statities and Fine Arts	de ind nes.	
	S	-		at least two specific disciplines.		
ENGL 2020 or ENGL 2030 or HIST 1310* or HIST 1320* or MUSC 1050	Major British Writers I or Major British Writers II or Nineteenth-Century America* or Twentieth-Century United States* or Intro to Music Appreciation *Satisfies the State of Missouri government requirement.		6	ENGLISH 1211 or ENGLISH 1212 or HISTORY 1300* or HISTORY 1310* or MUSIC 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present or American History to 1877* or American History Since 1877* or Music Understanding and Appreciation 'Satisfies the State of Missouri government requirement.	6
				and Social Sciences		
HIST 1100 or PHIL 1010 or PHIL 2010 or POLT 1060* or PSYC 1030 or ECON 2020 or ECON 2030 or Foreign Language	World Civilizations before 1500 or Intro to Philosophy or Informal Logic or Intro to American Politics* or Intro to Psychology* or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.		6	at least two specific disciplines. HISTORY 1100 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 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
		Human		arts, and Social Sciences elect 3 hours.		
HASS Elective	Humanities, Arts, Social Sciences Elective: Any his music, theater, English and technical communication philosophy, political science, psychology, economics etymology, or foreign language.	1,	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
	No free electives applied to the degree. Group 2 Major Requirements Group 1 Core Requirements	Total Hours	0 22 29 51		Maximum Free Electives 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.	0 23 22 45