## North Central Missouri College — Missouri S&T General Engineering

Transfer Guide Effective as of Fall 2024

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

## **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.

	North Central Missouri College	<u>Sem</u>	<u>nester</u>	<u>Missouri S&amp;T</u>		
MT 150 and	Geometry and Calculus I and	10	MATH 1214 and	Calculus for Engineers I and		
MT 250	Geometry and Calculus II	10	MATH 1215	Calculus for Engineers II Grade of C or better is required.		٥
MT 260	Geometry and Calculus III	5	MATH 2222	Calculus III Grade of C or better is required.		4
PS 210	General Physics I	5	PHYSICS 1135	Engineering Physics I Grade of C or better is required.		4
PS 212	General Physics II	5	PHYSICS 2135	Engineering Physics II Grade of C or better is required.		4
CH 110	General Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab		5
EN 101	English I	3	ENGLISH 1120	Exposition and Argumentation		3
EC 252 or	Microeconomics or	2	ECON 1100 or	Principles of Microeconomics or		3
EC 253	Macroeconomics	3	ECON 1200	Principles of Macroeconomics		3
		Total Hours 36			Total Hours	31

## 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.

Humanities/Social Science (HSS) Electives: HSS electives may include any art, English and technical communication, etymology, foreign language, music, philosophy, speech and media studies, or theatre.

Your campus may have additional acceptable options. Consult with your advisor or email transfer@mst.edu with questions. See Missouri S&T online catalog at https://catalog.mst.edu/undergraduate/degreeprogramsandcourses/ for more information.

	Aerospace Enginee	ring	g Grou	p 2 Major	Requirements	
	North Central Missouri College		Semester		Missouri S&T	
HI 102 or	Western Civilization Since 1700 or			HISTORY 1200 or	Modern Western Civilization or	
HI 103 or	American History to 1877 or	0		HISTORY 1300 or	American History to 1877 or	0
HI 104 or	American History since 1877 or	3		HISTORY 1310 or	American History since 1877 or	3
PL 216	National Government			POL SCI 1200	American Government	
EN 102 or	English II or	2		ENGLISH 1160 or	Writing and Research or	2
SP 175	Speech Communications	3		SPMS 1185	Principles of Speech	3
IT 243	C++ Programming	3		CS 1971, 1981	Intro to Programming Method and Lab (C++)	3
	Literature Elective	3			Literature Elective	3
PH 101	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
	No free electives applied to the degree.	0			Maximum Free Electives	0
	Group 2 Major Requirements	15			Group 2 Major Requirements	15
	Group 1 Core Requirements	36			Group 1 Core Requirements	31
	Total Hou	rs 51			Total Hours*	46
					*S&T advisor permission is required to transfer more than 68 credits toward the S&T Aerospace Engineering degree.	

	Architectural Engineering Group 2 Major Requirements									
	North Central Missouri College		Semester		Missouri S&T					
HI 102* (or HI 103 or HI 104)	Western Civilization Since 1700* or (American History to 1877 or American History since 1877) 'HI 102 is preferred; 103 or 104 will also be accepted.	3		HISTORY 1200* (or HISTORY 1300 or HISTORY 1310)	Modern Western Civilization* (or American History to 1877 or American History since 1877) *HISTORY 1200 is preferred; 1300 or 1310 will also be accepted.	3				
Humanities or Social Science or Communication	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language or one communication course from this list: EN 102 or SP 175.	3		Humanities or Social Science or Communication	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language or one communication course from this list: ENGLISH 1160, 1600, 3560 or SPMS 1185.	3				
	No free electives applied to the degree.	0			Maximum Free Electives	0				
	Group 2 Major Requirements	6			Group 2 Major Requirements	6				
	Group 1 Core Requirements	36			Group 1 Core Requirements	31				
	Total Hours	42			Total Hours* *S&T advisor permission is required to transfer more than 69 credits toward the S&T Architectural Engineering degree.	37				

	Biomedical Eng	gine	ering	-Biomanufa	cturing						
	Group 2 Major Requirements										
	North Central Missouri College		Semester		Missouri S&T						
SP 175	Speech Communications	3		SP&MS 1185	Principles of Speech	3					
HI 102 or HI 103 or HI 104 or PL 216	Western Civilization Since 1700 or American History to 1877 or American History since 1877 or National Government	3		HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization or American History to 1877 or American History since 1877 or American Government	3					
CH 112	General Chemistry II	5		CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2)  *CHEM 1510 is not an S&T degree reguirement. Will transfer as general credit.	3					
BI 100	General Biology	5		BIO SCI 1113, 1219	General Biology and Lab Applies to degree as Track Elective.	4					
IT 243	C++ Programming	3		CS 1971, 1981*	Intro to Programming Method and Lab (C++)* *Will be substituted for CS 1500.	3					
Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3		Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3					
	No free electives applied to the degree.	0			Maximum Free Electives	0					
	Group 2 Major Requirements	22			Group 2 Major Requirements	19					
	Group 1 Core Requirements	36			Group 1 Core Requirements	31					
	Total Hours	58			Total Hours* "S&T advisor permission is required to transfer more than 68 credit hours toward the degree.	50					

	Biome	edical E	<mark>-nç</mark>	gineeri	ng-Biomate	erials						
	Group 2 Major Requirements											
	North Central Missouri College			Semester		Missouri S&T						
SP 175	Speech Communications		3		SP&MS 1185	Principles of Speech	3					
HI 102 or HI 103 or HI 104 or PL 216	Western Civilization Since 1700 or American History to 1877 or American History since 1877 or National Government		3		HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization or American History to 1877 or American History since 1877 or American Government	3					
CH 112	General Chemistry II		5		CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) *CHEM 1510 is not an S&T degree reguirement. Will transfer as general credit.	3					
BI 100	General Biology		5		BIO SCI 1113*, 1219*	General General Biology* and Lab* *Applies to degree as Track Elective (Non-engineering).	4					
IT 243	C++ Programming		3		CS 1971, 1981*	Intro to Programming Method and Lab (C++)* *Will be substituted for CS 1500.	3					
	No free electives applied to the degree.		0			Maximum Free Electives	0					
	Group 2 Major Requirements		19			Group 2 Major Requirements	16					
	Group 1 Core Requirements		36			Group 1 Core Requirements	31					
		Total Hours	55			Total Hours* *S&T advisor permission is required to transfer more than 65 credits toward the S&T Biomedicall Engineering degree.	47					

	Ceramic Engineerir	ng	Group	2 Major Re	quirements	
HI 102 or HI 103 or HI 104 or PL 216	North Central Missouri College Western Civilization Since 1700 or American History to 1877 or American History since 1877 or National Government	3	Semester	HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Missouri S&T  Modern Western Civilization or American History to 1877 or American History since 1877 or American Government	3
CH 112	General Chemistry II	5		CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) *CHEM 1510 is not an S&T degree reguirement. Will transfer as general credit.	3
EN 102 or SP 175 or HSS Elective	English II or Speech Communications or Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3		ENGLISH 1160 or SPMS 1185 or HSS Elective	Writing and Research or Principles of Speech or Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3
Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3		Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3
Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3		Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3
	No free electives applied to the degree. Group 2 Major Requirements Group 1 Core Requirements Total Hours	0 17 36 53			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 15 31 46

	Chemical Engineering or Chemical Engineering - Biochemical Engineering Emphasis Group 2 Major Requirements									
	North Central Missouri College	Se	emester_		Missouri S&T					
SP 175	Speech Communications	3	SP&MS	1185	Principles of Speech	3				
HI 102 or HI 103 or HI 104 or PL 216	Western Civilization Since 1700 or American History to 1877 or American History since 1877 or National Government	3	HISTO	RY 1200 or RY 1300 or RY 1310 or CI 1200	Modern Western Civilization or American History to 1877 or American History since 1877 or American Government	3				
CH 112	General Chemistry II	5	CHEM	1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) CHEM 1320 will partially satisfy the 9-hour science elective requirement.  "CHEM 1510 is not an S&T degree reguirement. Will transfer as general credit.	3				
BI 243	Microbiology	4	BIO SC	I 3313, 3319	Microbiology and Lab (5) Will partially satisfy he 9-hour science elective requirement.	5				
IT 243	C++ Programming	3	CS 197	1, 1981*	Intro to Programming Method and Lab (C++)* *Will be substituted for CS 1500.	3				
Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3	Human Social S		Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3				
	No free electives applied to the degree.	0			Maximum Free Electives	0				
	Group 2 Major Requirements Group 1 Core Requirements Total Hours	21 36 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 Chemical Engineering degree.	20 31 51				

	Civil Engineering Group 2 Major Requirements									
	North Central Missouri College		Semester		Missouri S&T					
EN 102 or SP 175	English II or Speech Communications	3		ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech	3				
HI 102 or HI 103 or HI 104 or PL 216	Western Civilization Since 1700 or American History to 1877 or American History since 1877 or National Government	3		HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization or American History to 1877 or American History since 1877 or American Government	3				
Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3		Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3				
	No free electives applied to the degree.	0			Maximum Free Electives	0				
	Group 2 Major Requirements Group 1 Core Requirements Total Hours	9 36 45			Group 2 Major Requirements Group 1 Core Requirements  Total Hours*  *\$8.T advisor permission is required to transfer more than 69 credits toward the S&T CMI Engineering degree.	9 31 40				

	Computer Engineering Group 2 Major Requirements									
	North Central Missouri College		Semester		Missouri S&T					
SP 175	Speech Communications	3		SPMS 1185	Principles of Speech	3				
EN 102	English II	3		ENGLISH 1160	Writing and Research	3				
HI 102 or HI 103 or HI 104 or PL 216	Western Civilization Since 1700 or American History to 1877 or American History since 1877 or National Government	3		HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization or American History to 1877 or American History since 1877 or American Government	3				
IT 243	C++ Programming	3		CS 1971, 1981*	Intro to Programming Method and Lab (C++)* "Will be substituted for CS 1500.	3				
Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3		Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3				
Electives	Maximum Free Electives	3		Electives	Maximum Free Electives	3				
	Group 2 Major Requirements Group 1 Core Requirements	18 36			Group 2 Major Requirements Group 1 Core Requirements	18 31				
	Total Hours	54			Total Hours*  *S&T advisor permission is required to transfer more than 68 credits toward the S&T Computer Engineering degree.	49				

	Electrical Engineering Group 2 Major Requirements								
	North Central Missouri College		Semester		Missouri S&T				
SP 175	Speech Communications	3		SPMS 1185	Principles of Speech	3			
EN 102	English II	3		ENGLISH 1160	Writing and Research	3			
HI 102 or HI 103 or HI 104 or PL 216	Western Civilization Since 1700 or American History to 1877 or American History since 1877 or National Government	3		HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization or American History to 1877 or American History since 1877 or American Government	3			
IT 243	C++ Programming	3		CS 1971, 1981*	Intro to Programming Method and Lab (C++)* *Will be substituted for CS 1500.	3			
Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3		Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3			
Electives	Maximum Free Electives	3		Electives	Maximum Free Electives	3			
	Group 2 Major Requirements	18			Group 2 Major Requirements	18			
	Group 1 Core Requirements	36			Group 1 Core Requirements	31			
	Total Hours	54			Total Hours* *S&T advisor permission is required to transfer more than 68 credits toward the S&T Electrical Engineering degree.	49			

	Engineering Management Group 2 Major Requirements									
	North Central Missouri College		Semester		Missouri S&T					
PY 121	General Psychology	3		PSYCH 1101	General Psychology	3				
HI 102 or HI 103 or HI 104 or PL 216	Western Civilization Since 1700 or American History to 1877 or American History since 1877 or National Government	3		HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization or American History to 1877 or American History since 1877 or American Government	3				
SP 175	Speech Communications	3		SPMS 1185	Principles of Speech	3				
EN 102	English II	3		ENGLISH 1160	Writing and Research	3				
IT 243	C++ Programming	3		CS 1971, 1981	Intro to Programming Method and Lab (C++)	3				
Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3		Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3				
	No free electives applied to the degree.	3		Electives	Maximum Free Electives	0				
	Group 2 Major Requirements	21			Group 2 Major Requirements	18				
1	Group 1 Core Requirements	36			Group 1 Core Requirements	31				
	Total Hours	57			Total Hours* *S&T advisor permission is required to transfer more than 68 credits toward the S&T Engineering Management degree.	61				

	Environmental Engine	eri	ng Gro	oup 2 Major	Requirements	
	North Central Missouri College		Semester		Missouri S&T	
EN 102 or SP 175	English II or Speech Communications	3		ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech	3
HI 102 or HI 103 or HI 104	Western Civilization Since 1700 or American History to 1877 or American History since 1877	3		HISTORY 1200 or HISTORY 1300 or HISTORY 1310	Modern Western Civilization or American History to 1877 or American History since 1877	3
CH 112	General Chemistry II	5		CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) *CHEM 1510 is not an S&T degree reguirement. Will transfer as general credit.	3
BI 100	General Biology	5		BIO SCI 1113, 1119*	General Biology (3) and Lab* (1) BIO SCI 1119 is not an S&T degree requirement, will transfer as general elective credit.	3
Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3		Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3
	No free electives applied to the degree.	0			Maximum Free Electives	0
	Group 2 Major Requirements	19			Group 2 Major Requirements	15
	Group 1 Core Requirements	36			Group 1 Core Requirements	31
	Total Hours	55			Total Hours* *S&T advisor permission is required to transfer more than 69 credits toward the S&T Environmental Engineering degree.	46

	Geological Engineer	ing	Grou	p 2 Major R	Requirements	
	North Central Missouri College		Semester		Missouri S&T	
HI 102 or HI 103 or HI 104 or PL 216 IT 243	Western Civilization Since 1700 or American History to 1877 or American History since 1877 or National Government C++ Programming	3		HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200 CS 1971, 1981	Modern Western Civilization or American History to 1877 or American History since 1877 or American Government Intro to Programming Method and Lab (C++)	3
Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3		Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3
Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3		Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3
	No free electives applied to the degree. Group 2 Major Requirements Group 1 Core Requirements Total Hours	0 12 36 48	l		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 Geological Engineering degree.	0 12 31 43

	Mechanical Engineer	in	g Grou	ıp 2 Major I	Requirements	
	North Central Missouri College		Semester	ŗ	Missouri S&T	
HI 102 or HI 103 or HI 104 or PL 216	Western Civilization Since 1700 or American History to 1877 or American History since 1877 or National Government	3		HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization or American History to 1877 or American History since 1877 or American Government	3
EN 102 or SP 175 IT 243	English II or Speech Communications C++ Programming	3		ENGLISH 1160 or SPMS 1185 CS 1971, 1981	Writing and Research or Principles of Speech Intro to Programming Method and Lab (C++)	3
Humanities or Social Science	Literature Elective  Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3		Humanities or Social Science	Literature Elective  Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3
	No free electives applied to the degree. Group 2 Major Requirements Group 1 Core Requirements Total Hours	0 15 36 51			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 Mechanical Engineering degree.	0 15 31 46

	Metallurgical Enginee	rin	g Gro	up 2 Major	Requirements	
	North Central Missouri College		Semester		Missouri S&T	
EN 102 or SP 175	English II or Speech Communications	3		ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech	3
HI 102 or HI 103 or HI 104 or PL 216	Western Civilization Since 1700 or American History to 1877 or American History since 1877 or National Government	3		HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization or American History to 1877 or American History since 1877 or American Government	3
CH 112	General Chemistry II	5		CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) *CHEM 1510 is not an S&T degree reguirement. Will transfer as general credit.	3
Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3		Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3
Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3		Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3
Electives	Maximum Free Electives	5		Electives	Maximum Free Electives	3
	Group 2 Major Requirements	22			Group 2 Major Requirements	18
	Group 1 Core Requirements  Total Hours	36 58			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.	31 49

	North Central Missouri College	Sem	nester	Missouri S&T	
EN 102	English II	3	ENGLISH 1160	Writing and Research	3
HI 102 or HI 103 or HI 104 or PL 216	Western Civilization Since 1700 or American History to 1877 or American History since 1877 or National Government	3	HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization or American History to 1877 or American History since 1877 or American Government	3
Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3	Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3
Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3	Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3
	No free electives applied to the degree.	0		Maximum Free Electives	0
	Group 2 Major Requirements	12		Group 2 Major Requirements	12
	Group 1 Core Requirements	36		Group 1 Core Requirements	31
	Total Hours	48		Total Hours* "S&T advisor permission is required to transfer more than 68 credits toward the S&T Mining Engineering degree.	43

	Nuclear Engineerin	g	Group	2 Major Re	quirements	
	North Central Missouri College		Semester		Missouri S&T	
EN 102 or SP 175	English II or Speech Communications	3		ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech	3
HI 102 or HI 103 or HI 104 or PL 216	Western Civilization Since 1700 or American History to 1877 or American History since 1877 or National Government	3		HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization or American History to 1877 or American History since 1877 or American Government	3
IT 243	C++ Programming	3		CS 1971, 1981	Intro to Programming Method and Lab (C++)	3
Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3		Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3
Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3		Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3
Electives	Maximum Free Electives	6		Electives	Maximum Free Electives	6
	Group 2 Major Requirements Group 1 Core Requirements Total Hours	21 36 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 Nuclear Engineering degree.	21 31 52

	North Central Missouri College	Semester	r	Missouri S&T	
EN 102	English II	3	ENGLISH 1160	Writing and Research	3
HI 102 or HI 103 or HI 104 or PL 216	Western Civilization Since 1700 or American History to 1877 or American History since 1877 or National Government	3	HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization or American History to 1877 or American History since 1877 or American Government	3
Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3	Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3
Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3	Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3
	No free electives applied to the degree.	0		Maximum Free Electives	0
	Group 2 Major Requirements	12		Group 2 Major Requirements	12
	Group 1 Core Requirements	36		Group 1 Core Requirements	31
Total Hou	48		Total Hours* *S&T advisor permission is required to transfer more than 69 credits toward the S&T Petroleum Engineering degree.	43	