Cottey College — Missouri S&T

General Engineering

Transfer Guide Effective as of Fall 2026

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.

Cottey College			Semester	Missouri S&T		
MAT 210	Calculus I	4		MATH 1214	Calculus I Grade of C or better is required.	4
MAT 220	Calculus II	4		MATH 1215	Calculus II Grade of C or better is required.	4
PHY 205	General Physics I and Lab	4		PHYSICS 1135	Engineering Physics I Grade of C or better is required.	4
PHY 206	General Physics II and Lab	4		PHYSICS 2135	Engineering Physics II Grade of C or better is required.	4
FWS 101	First-Year Writing Seminar	3		FR ENG 1100	Study and Careers in Engineering and Computing	1
	Total Hours	19			Total Hours	17

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
Biomedical Engineering - 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
Semiconductor 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 2026.
Further information or updates are available from Missouri S&T Transfer Admissions at transfer.mst.edu, transfer@mst.edu, or 800-522-0938.

Aerospace Engineering Group 2 Major Requirements

Cottey College			Semester	Missouri S&T		
WRI 102 or WRI 292 or SPE 101	College Writing or Professional Writing or Fundamentals of Speech	3		ENGLISH 1160 or ENGLISH 3560 or SPMS 1185	Writing and Research or Technical Writing or Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHE 160	General Chemistry I with Lab	5		CHEM 1310*, 1319	General Chemistry I and Lab *CHEM 1310 will be substituted for CHEM 1305.	5
MATH 260 or MATH 320	Linear Algebra or Probability and Statistics	3		MATH 3108 or STAT 3115	Linear Algebra I or Engineering Statistics* pending approval for substitution Satisfies the Advanced Math/Stat elective requirement. *STAT 3115 will be substituted for STAT 3113.	3
PHI 205	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
Humanities, Arts, and Social Sciences General Education Requirements From the options listed in each group below, select 15 hours to include 6 hours Humanities and Fine Arts from at least two specific disciplines and 6 hours Behavioral and Social Sciences from at least two specific disciplines. ***At least one course must be selected from HISTORY 1200, 1300, 1310, or POL SCI 1200 to satisfy the State of Missouri government requirement.**						
Humanities and Fine Arts Select 6 hours from at least two specific disciplines.						
ENG 201 or ENG 202 or NG 205 or ENG 206 or **HIS 111*** or **HIS 112*** or ART 101 or MUS 101 or Literature	English Literature 1 or English Literature 2 or American Literature 1 or American Literature 2 or **US History to 1877*** or **US History Since 1877*** or Art Appreciation or Music Appreciation or Any literature with prerequisite of no more than English Composition I. ***Satisfies the State of Missouri government requirement.**	6		ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or **HISTORY 1300*** or **HISTORY 1310*** or ART 1180 or MUSIC 1150 or Literature	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 **American History to 1877*** or **American History Since 1877*** or Art Appreciation or Music Appreciation or Any literature with prerequisite of no more than ENGLISH 1120. ***Satisfies the State of Missouri government requirement.**	6
Behavioral and Social Sciences Select 6 hours from at least two specific disciplines.						
HIS 131 or **HIS 132*** or ENV 125 or PHI 101 or PHI 200 or **POL 101*** or PSY 101 or ECO 202 or ECO 201 or Foreign Language	World History to 1500 or **World History Since 1500*** or World Regional Geography or Intro to Philosophy or Logic and Critical Thinking or **United States Government*** or General Psychology or Principles of Economics II: Microeconomics or Principles of Economics I: 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
Humanities, Arts, and Social Sciences Select 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		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	29			Group 2 Major Requirements	29
	Group 1 Core Requirements	19			Group 1 Core Requirements	17
	Total Hours	48			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

	Cottey College	Semester		Missouri S&T	
WRI 102 or WRI 292 or SPE 101	College Writing or Professional Writing or Fundamentals of Speech	3	ENGLISH 1160 or ENGLISH 3560 or SPMS 1185	Writing and Research or Technical Writing or Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHE 160	General Chemistry I with Lab	5	CHEM 1310*, 1319	General Chemistry I and Lab *CHEM 1310 will be substituted for CHEM 1305.	5
STAT 320	Probability and Statistics	3	STAT 3115*	Engineering Statistics* *Will be substituted for STAT 3113.	3
	Humanities, Arts, and Social Sciences General Education Requirements From the options listed in each group below, select 12 hours to include 3 hours Humanities and Fine Arts and 6 hours Behavioral and Social Sciences from at least two specific disciplines. ***At least one course must be selected from HISTORY 1200, 1300, 1310, or POL SCI 1200 to satisfy the State of Missouri government requirement.**				
	Humanities and Fine Arts Select 3 hours.				
ENG 201 or ENG 202 or NG 205 or ENG 206 or **HIS 111*** or **HIS 112*** or MUS 101 or Literature	English Literature 1 or English Literature 2 or American Literature 1 or American Literature 2 or **US History to 1877*** or **US History Since 1877*** or Music Appreciation or Any literature with prerequisite of no more than English Composition I. ***Satisfies the State of Missouri government requirement.**	3	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or **HISTORY 1300*** or **HISTORY 1310*** or MUSIC 1150 or Literature	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 **American History to 1877*** or **American History Since 1877*** or Music Appreciation or Any literature with prerequisite of no more than ENGLISH 1120. ***Satisfies the State of Missouri government requirement.**	3
	Behavioral and Social Sciences Select 6 hours from at least two specific disciplines, to include HISTORY 1200.				
HIS 132*	**World History Since 1500*** ***Satisfies the State of Missouri Government requirement.**	3	**HISTORY 1200***	**Modern Western Civilization*** ***Satisfies the State of Missouri Government requirement.**	3
PHI 101 or PHI 200 or **POL 101*** or PSY 101 or ECO 202 or ECO 201 or Foreign Language	Intro to Philosophy or Logic and Critical Thinking or **United States Government*** or General Psychology or Principles of Economics II: Microeconomics or Principles of Economics I: 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
	Humanities, Arts, and Social Sciences Select 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	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	23		Group 2 Major Requirements	23
	Group 1 Core Requirements	19		Group 1 Core Requirements	17
	Total Hours	42		Total Hours*	40
				*S&T advisor permission is required to transfer more than 69 credits toward the S&T Architectural Engineering degree.	

Biomedical Engineering-Biomanufacturing
Group 2 Major Requirements

Cottey College			Semester	Missouri S&T		
SPE 101	Fundamentals of Speech	3		SP&MS 1185	Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHE 160	General Chemistry I with Lab	5		CHEM 1310, 1319	General Chemistry I and Lab	5
CHE170	General Chemistry II with Lab	5		CHEM 1320	General Chemistry II	3
BIO 101	Introductory Biology with Lab (4)	4		BIO SCI 1113, 1219	General Biology and Lab Applies to degree as Track Elective.	4
BIO 211 and BIO 212	Human Anatomy and Physiology 1 (4) and Human Anatomy and Physiology 2 (4) Both courses are required to receive full transfer credit.	8		BIO SCI 3333, 3339* and BIO SCI 3343*, 3349*	Anatomy and Physiology I and Lab* and Anatomy and Physiology II* and Lab* The combination of Cottey BIO 211 and 212 is equivalent to the combination of S&T BIO SCI 3333, 3339, 3343, and 3349. *BIO SCI 3333 is a degree requirement. BIO SCI 3339, 3343, and 3349 transfer as general elective credit.	3
CSC 212	Data Structures	3		COMP SCI 1500	Computational Problem Solving	3
Humanities, Arts, and Social Sciences General Education Requirements From the options listed in each group below, select 12 hours to include 6 hours Humanities and Fine Arts from at least two specific disciplines and 3 hours Behavioral and Social Sciences. ***At least one course must be selected from HISTORY 1200, 1300, 1310, or POL SCI 1200 to satisfy the State of Missouri government requirement.**						
Humanities and Fine Arts Select 6 hours from at least two specific disciplines.						
ENG 201 or ENG 202 or NG 205 or ENG 206 or **HIS 111*** or **HIS 112*** or ART 101 or MUS 101 or Literature	English Literature 1 or English Literature 2 or American Literature 1 or American Literature 2 or **US History to 1877*** or **US History Since 1877*** or Art Appreciation or Music Appreciation or Any literature with prerequisite of no more than English Composition I. ***Satisfies the State of Missouri government requirement.**	6		ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or **HISTORY 1300*** or **HISTORY 1310*** or ART 1180 or MUSIC 1150 or Literature	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 **American History to 1877*** or **American History Since 1877*** or Art Appreciation or Music Appreciation or Any literature with prerequisite of no more than ENGLISH 1120. ***Satisfies the State of Missouri government requirement.**	6
Behavioral and Social Sciences Select 3 hours.						
HIS 131 or **HIS 132*** or ENV 125 or **POL 101*** or PSY 101 or ECO 202 or ECO 201 or Foreign Language	World History to 1500 or **World History Since 1500*** or World Regional Geography or **United States Government*** or General Psychology or Principles of Economics II: Microeconomics or Principles of Economics I: Macroeconomics or Elementary or Intermediate Foreign Language ***Satisfies the State of Missouri government requirement.**	3		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
Humanities, Arts, and Social Sciences ENGLISH 3560 required.						
WRI 292	Professional Writing	3		ENGLISH 3560	Technical Writing	3
	No free electives applied to the degree.	0			Maximum Free Electives	0
	Group 2 Major Requirements	40			Group 2 Major Requirements	33
	Group 1 Core Requirements	19			Group 1 Core Requirements	17
	Total Hours	59			Total Hours*	50
					*S&T advisor permission is required to transfer more than 69 credit hours toward the degree.	

Biomedical Engineering-Biomaterials
Group 2 Major Requirements

Cottey College		Semester	Missouri S&T		
SPE 101	Fundamentals of Speech	3	SP&MS 1185	Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHE 160	General Chemistry I with Lab	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHE170	General Chemistry II with Lab	5	CHEM 1320	General Chemistry II	3
BIO 101	Introductory Biology with Lab (4)	4	BIO SCI 1113*, 1219*	General Biology* and Lab* *Applies to degree as Track Elective (Non-engineering).	4
BIO 211 and BIO 212	Human Anatomy and Physiology 1 (4) and Human Anatomy and Physiology 2 (4) Both courses are required to receive full transfer credit.	8	BIO SCI 3333, 3339* and BIO SCI 3343*, 3349*	Anatomy and Physiology I and Lab* and Anatomy and Physiology II* and Lab* The combination of Cottey BIO 211 and 212 is equivalent to the combination of S&T BIO SCI 3333, 3339, 3343, and 3349. *BIO SCI 3333 is a degree requirement. BIO SCI 3339, 3343, and 3349 transfer as general elective credit.	3
CSC 212	Data Structures	3	COMP SCI 1500	Computational Problem Solving	3
Humanities, Arts, and Social Sciences General Education Requirements From the options listed in each group below, select 12 hours to include 6 hours Humanities and Fine Arts from at least two specific disciplines and 3 hours Behavioral and Social Sciences. ***At least one course must be selected from HISTORY 1200, 1300, 1310, or POL SCI 1200 to satisfy the State of Missouri government requirement.**					
Humanities and Fine Arts Select 6 hours from at least two specific disciplines.					
ENG 201 or ENG 202 or NG 205 or ENG 206 or **HIS 111*** or **HIS 112*** or ART 101 or MUS 101 or Literature	English Literature 1 or English Literature 2 or American Literature 1 or American Literature 2 or **US History to 1877*** or **US History Since 1877*** or Art Appreciation or Music Appreciation or Any literature with prerequisite of no more than English Composition I. ***Satisfies the State of Missouri government requirement.**	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or **HISTORY 1300*** or **HISTORY 1310*** or ART 1180 or MUSIC 1150 or Literature	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 **American History to 1877*** or **American History Since 1877*** or Art Appreciation or Music Appreciation or Any literature with prerequisite of no more than ENGLISH 1120. ***Satisfies the State of Missouri government requirement.**	6
Behavioral and Social Sciences Select 3 hours.					
HIS 131 or **HIS 132*** or ENV 125 or **POL 101*** or PSY 101 or ECO 202 or ECO 201 or Foreign Language	World History to 1500 or **World History Since 1500*** or World Regional Geography or **United States Government*** or General Psychology or Principles of Economics II: Microeconomics or Principles of Economics I: Macroeconomics or Elementary or Intermediate Foreign Language ***Satisfies the State of Missouri government requirement.**	3	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
Humanities, Arts, and Social Sciences ENGLISH 3560 required.					
WRI 292	Professional Writing	3	ENGLISH 3560	Technical Writing	3
	No free electives applied to the degree.	0		Maximum Free Electives	0
	Group 2 Major Requirements	40		Group 2 Major Requirements	33
	Group 1 Core Requirements	19		Group 1 Core Requirements	17
	Total Hours	59		Total Hours*	50

*S&T advisor permission is required to transfer more than 69 credits toward the S&T Biomedical Engineering degree.

Ceramic Engineering Group 2 Major Requirements

Cottey College		Semester	Missouri S&T		Semester
WRI 102 or WRI 292 or SPE 101	College Writing or Professional Writing or Fundamentals of Speech	3	ENGLISH 1160 or ENGLISH 3560 or SPMS 1185	Writing and Research or Technical Writing or Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHE 160	General Chemistry I with Lab	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHE170	General Chemistry II with Lab	5	CHEM 1320	General Chemistry II	3
Humanities, Arts, and Social Sciences General Education Requirements From the options listed in each group below, select 15 hours to include 6 hours Humanities and Fine Arts from at least two specific disciplines and 6 hours Behavioral and Social Sciences from at least two specific disciplines. ***At least one course must be selected from HISTORY 1200, 1300, 1310, or POL SCI 1200 to satisfy the State of Missouri government requirement.**					
Humanities and Fine Arts Select 6 hours from at least two specific disciplines.					
ENG 201 or ENG 202 or NG 205 or ENG 206 or **HIS 111*** or **HIS 112*** or ART 101 or MUS 101 or Literature	English Literature 1 or English Literature 2 or American Literature 1 or American Literature 2 or **US History to 1877*** or **US History Since 1877*** or Art Appreciation or Music Appreciation or Any literature with prerequisite of no more than English Composition I. ***Satisfies the State of Missouri government requirement.**	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or **HISTORY 1300*** or **HISTORY 1310*** or ART 1180 or MUSIC 1150 or Literature	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 **American History to 1877*** or **American History Since 1877*** or Art Appreciation or Music Appreciation or Any literature with prerequisite of no more than ENGLISH 1120. ***Satisfies the State of Missouri government requirement.**	6
Behavioral and Social Sciences Select 6 hours from at least two specific disciplines.					
HIS 131 or **HIS 132*** or ENV 125 or PHI 101 or PHI 200 or **POL 101*** or PSY 101 or ECO 202 or ECO 201 or Foreign Language	World History to 1500 or **World History Since 1500*** or World Regional Geography or Intro to Philosophy or Logic and Critical Thinking or **United States Government*** or General Psychology or Principles of Economics II: Microeconomics or Principles of Economics I: 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
Humanities, Arts, and Social Sciences Select 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	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	28		Group 2 Major Requirements	26
	Group 1 Core Requirements	19		Group 1 Core Requirements	17
	Total Hours	47		Total Hours*	43
				*S&T advisor permission is required to transfer more than 68 credits toward the S&T Ceramic Engineering degree.	

Chemical Engineering or
Chemical Engineering - Biochemical Engineering Emphasis
Group 2 Major Requirements

Cottey College		Semester	Missouri S&T		
SPE 101	Fundamentals of Speech	3	SP&MS 1185	Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHE 160	General Chemistry I with Lab	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHE170	General Chemistry II with Lab	5	CHEM 1320	General Chemistry II	3
CSC 212	Data Structures	3	COMP SCI 1500	Computational Problem Solving	3
STAT 320	Probability and Statistics	3	STAT 3115*	Engineering Statistics* *Will be substituted for STAT 3113.	3
Humanities, Arts, and Social Sciences General Education Requirements From the options listed in each group below, select 15 hours to include 6 hours Humanities and Fine Arts from at least two specific disciplines and 6 hours Behavioral and Social Sciences from at least two specific disciplines. ***At least one course must be selected from HISTORY 1200, 1300, 1310, or POL SCI 1200 to satisfy the State of Missouri government requirement.**					
Humanities and Fine Arts Select 6 hours from at least two specific disciplines.					
ENG 201 or ENG 202 or NG 205 or ENG 206 or **HIS 111*** or **HIS 112*** or ART 101 or MUS 101 or Literature	English Literature 1 or English Literature 2 or American Literature 1 or American Literature 2 or **US History to 1877*** or **US History Since 1877*** or Art Appreciation or Music Appreciation or Any literature with prerequisite of no more than English Composition I. ***Satisfies the State of Missouri government requirement.**	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or **HISTORY 1300*** or **HISTORY 1310*** or ART 1180 or MUSIC 1150 or Literature	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 **American History to 1877*** or **American History Since 1877*** or Art Appreciation or Music Appreciation or Any literature with prerequisite of no more than ENGLISH 1120. ***Satisfies the State of Missouri government requirement.**	6
Behavioral and Social Sciences Select 6 hours from at least two specific disciplines.					
HIS 131 or **HIS 132*** or ENV 125 or PHI 101 or PHI 200 or **POL 101*** or PSY 101 or ECO 202 or ECO 201 or Foreign Language	World History to 1500 or **World History Since 1500*** or World Regional Geography or Intro to Philosophy or Logic and Critical Thinking or **United States Government*** or General Psychology or Principles of Economics II: Microeconomics or Principles of Economics I: 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
Humanities, Arts, and Social Sciences ENGLISH 3560 required.					
WRI 292	Professional Writing	3	ENGLISH 3560	Technical Writing	3
	No free electives applied to the degree.	0		Maximum Free Electives	0
	Group 2 Major Requirements	34		Group 2 Major Requirements	32
	Group 1 Core Requirements	19		Group 1 Core Requirements	17
	Total Hours	53		Total Hours*	49
				*S&T advisor permission is required to transfer more than 68 credits toward the S&T Chemical Engineering degree.	

Civil Engineering Group 2 Major Requirements

Cottey College		Semester	Missouri S&T		
WRI 102 or WRI 292 or SPE 101	College Writing or Professional Writing or Fundamentals of Speech	3	ENGLISH 1160 or ENGLISH 3560 or SPMS 1185	Writing and Research or Technical Writing or Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHE 160	General Chemistry I with Lab	5	CHEM 1310*, 1319	General Chemistry I and Lab *CHEM 1310 will be substituted for CHEM 1305.	5
STAT 320	Probability and Statistics	3	STAT 3115*	Engineering Statistics* *Will be substituted for STAT 3113.	3
Humanities, Arts, and Social Sciences General Education Requirements From the options listed in each group below, select 15 hours to include 6 hours Humanities and Fine Arts from at least two specific disciplines and 6 hours Behavioral and Social Sciences from at least two specific disciplines. ***At least one course must be selected from HISTORY 1200, 1300, 1310, or POL SCI 1200 to satisfy the State of Missouri government requirement.**					
Humanities and Fine Arts Select 6 hours from at least two specific disciplines.					
ENG 201 or ENG 202 or NG 205 or ENG 206 or **HIS 111*** or **HIS 112*** or ART 101 or MUS 101 or Literature	English Literature 1 or English Literature 2 or American Literature 1 or American Literature 2 or **US History to 1877*** or **US History Since 1877*** or Art Appreciation or Music Appreciation or Any literature with prerequisite of no more than English Composition I. ***Satisfies the State of Missouri government requirement.**	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or **HISTORY 1300*** or **HISTORY 1310*** or ART 1180 or MUSIC 1150 or Literature	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 **American History to 1877*** or **American History Since 1877*** or Art Appreciation or Music Appreciation or Any literature with prerequisite of no more than ENGLISH 1120. ***Satisfies the State of Missouri government requirement.**	6
Behavioral and Social Sciences Select 6 hours from at least two specific disciplines.					
HIS 131 or **HIS 132*** or ENV 125 or PHI 101 or PHI 200 or **POL 101*** or PSY 101 or ECO 202 or ECO 201 or Foreign Language	World History to 1500 or **World History Since 1500*** or World Regional Geography or Intro to Philosophy or Logic and Critical Thinking or **United States Government*** or General Psychology or Principles of Economics II: Microeconomics or Principles of Economics I: 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
Humanities, Arts, and Social Sciences Select 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	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	26		Group 2 Major Requirements	26
	Group 1 Core Requirements	19		Group 1 Core Requirements	17
	Total Hours	45		Total Hours*	70
				*S&T advisor permission is required to transfer more than 69 credits toward the S&T Civil Engineering degree.	

Computer Engineering Group 2 Major Requirements

Cottey College		Semester	Missouri S&T		
SPE 101	Fundamentals of Speech	3	SPMS 1185	Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHE 160	General Chemistry I with Lab	5	CHEM 1310*, 1319	General Chemistry I and Lab *CHEM 1310 will be substituted for CHEM 1305.	5
CSC 212	Data Structures	3	COMP SCI 1500	Computational Problem Solving	3
MATH 260 or MATH 310	Linear Algebra or Foundations of Mathematics	3	MATH 3108 or MATH 3109	Linear Algebra or Foundations of Mathematics Satisfies a required math elective.	3
STAT 320	Probability and Statistics	3	STAT 3115*	Engineering Statistics* *Will be substituted for STAT 3117.	3
Humanities, Arts, and Social Sciences General Education Requirements From the options listed in each group below, select 15 hours to include 6 hours Humanities and Fine Arts from at least two specific disciplines and 6 hours Behavioral and Social Sciences from at least two specific disciplines. ***At least one course must be selected from HISTORY 1200, 1300, 1310, or POL SCI 1200 to satisfy the State of Missouri government requirement.**					
Humanities and Fine Arts Select 6 hours from at least two specific disciplines.					
ENG 201 or ENG 202 or NG 205 or ENG 206 or **HIS 111*** or **HIS 112*** or ART 101 or MUS 101 or Literature	English Literature 1 or English Literature 2 or American Literature 1 or American Literature 2 or **US History to 1877*** or **US History Since 1877*** or Art Appreciation or Music Appreciation or Any literature with prerequisite of no more than English Composition I. ***Satisfies the State of Missouri government requirement.**	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or **HISTORY 1300*** or **HISTORY 1310*** or ART 1180 or MUSIC 1150 or Literature	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 **American History to 1877*** or **American History Since 1877*** or Art Appreciation or Music Appreciation or Any literature with prerequisite of no more than ENGLISH 1120. ***Satisfies the State of Missouri government requirement.**	6
Behavioral and Social Sciences Select 6 hours from at least two specific disciplines.					
HIS 131 or **HIS 132*** or ENV 125 or PHI 101 or PHI 200 or **POL 101*** or PSY 101 or ECO 202 or ECO 201 or Foreign Language	World History to 1500 or **World History Since 1500*** or World Regional Geography or Intro to Philosophy or Logic and Critical Thinking or **United States Government*** or General Psychology or Principles of Economics II: Microeconomics or Principles of Economics I: 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
Humanities, Arts, and Social Sciences Select 3 hours.					
WRI 102 or WRI 292	College Writing or Professional Writing	3	ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing	3
Electives	Maximum Free Electives	3	Electives	Maximum Free Electives	3
	Group 2 Major Requirements	35		Group 2 Major Requirements	35
	Group 1 Core Requirements	19		Group 1 Core Requirements	17
	Total Hours	54		Total Hours*	52
				*S&T advisor permission is required to transfer more than 68 credits toward the S&T Computer Engineering degree.	

Electrical Engineering Group 2 Major Requirements

Cottey College		Semester	Missouri S&T		
SPE 101	Fundamentals of Speech	3	SPMS 1185	Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHE 160	General Chemistry I with Lab	5	CHEM 1310*, 1319	General Chemistry I and Lab *CHEM 1310 will be substituted for CHEM 1305.	5
CSC 212	Data Structures	3	COMP SCI 1500	Computational Problem Solving	3
MATH 260	Linear Algebra	3	MATH 3108	Linear Algebra	3
STAT 320	Probability and Statistics	3	STAT 3115*	Engineering Statistics* *Will be substituted for STAT 3117.	3
Humanities, Arts, and Social Sciences General Education Requirements From the options listed in each group below, select 15 hours to include 6 hours Humanities and Fine Arts from at least two specific disciplines and 6 hours Behavioral and Social Sciences from at least two specific disciplines. ***At least one course must be selected from HISTORY 1200, 1300, 1310, or POL SCI 1200 to satisfy the State of Missouri government requirement.**					
Humanities and Fine Arts Select 6 hours from at least two specific disciplines.					
ENG 201 or ENG 202 or NG 205 or ENG 206 or **HIS 111*** or **HIS 112*** or ART 101 or MUS 101 or Literature	English Literature 1 or English Literature 2 or American Literature 1 or American Literature 2 or **US History to 1877*** or **US History Since 1877*** or Art Appreciation or Music Appreciation or Any literature with prerequisite of no more than English Composition I. ***Satisfies the State of Missouri government requirement.**	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or **HISTORY 1300*** or **HISTORY 1310*** or ART 1180 or MUSIC 1150 or Literature	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 **American History to 1877*** or **American History Since 1877*** or Art Appreciation or Music Appreciation or Any literature with prerequisite of no more than ENGLISH 1120. ***Satisfies the State of Missouri government requirement.**	6
Behavioral and Social Sciences Select 6 hours from at least two specific disciplines.					
HIS 131 or **HIS 132*** or ENV 125 or PHI 101 or PHI 200 or **POL 101*** or PSY 101 or ECO 202 or ECO 201 or Foreign Language	World History to 1500 or **World History Since 1500*** or World Regional Geography or Intro to Philosophy or Logic and Critical Thinking or **United States Government*** or General Psychology or Principles of Economics II: Microeconomics or Principles of Economics I: 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
Humanities, Arts, and Social Sciences Select 3 hours.					
WRI 102 or WRI 292	College Writing or Professional Writing	3	ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing	3
Electives	Maximum Free Electives	6	Electives	Maximum Free Electives	6
	Group 2 Major Requirements	38		Group 2 Major Requirements	38
	Group 1 Core Requirements	19		Group 1 Core Requirements	17
	Total Hours	57		Total Hours*	55
				*S&T advisor permission is required to transfer more than 68 credits toward the S&T Electrical Engineering degree.	

Engineering Management Group 2 Major Requirements

Cottey College		Semester	Missouri S&T		
SPE 101	Fundamentals of Speech	3	SPMS 1185	Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHE 160	General Chemistry I with Lab	5	CHEM 1310, 1319	General Chemistry I and Lab	5
STAT 320	Probability and Statistics	3	STAT 3115	Engineering Statistics	3
Humanities, Arts, and Social Sciences General Education Requirements From the options listed in each group below, select 15 hours to include 6 hours Humanities and Fine Arts from at least two specific disciplines and 6 hours Behavioral and Social Sciences from at least two specific disciplines. ***At least one course must be selected from HISTORY 1200, 1300, 1310, or POL SCI 1200 to satisfy the State of Missouri government requirement.**					
Humanities and Fine Arts Select 6 hours from at least two specific disciplines.					
ENG 201 or ENG 202 or NG 205 or ENG 206 or **HIS 111*** or **HIS 112*** or ART 101 or MUS 101 or Literature	English Literature 1 or English Literature 2 or American Literature 1 or American Literature 2 or **US History to 1877*** or **US History Since 1877*** or Art Appreciation or Music Appreciation or Any literature with prerequisite of no more than English Composition I. ***Satisfies the State of Missouri government requirement.**	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or **HISTORY 1300*** or **HISTORY 1310*** or ART 1180 or MUSIC 1150 or Literature	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 **American History to 1877*** or **American History Since 1877*** or Art Appreciation or Music Appreciation or Any literature with prerequisite of no more than ENGLISH 1120. ***Satisfies the State of Missouri government requirement.**	6
Behavioral and Social Sciences Select 6 hours from at least two specific disciplines to include PSYCH 1101.					
PSY 101	General Psychology	3	PSYCH 1101	General Psychology Required	3
HIS 131 or **HIS 132*** or ENV 125 or PHI 101 or PHI 200 or **POL 101*** or ECO 202 or ECO 201 or Foreign Language	World History to 1500 or **World History Since 1500*** or World Regional Geography or Intro to Philosophy or Logic and Critical Thinking or **United States Government*** or Principles of Economics II: Microeconomics or Principles of Economics I: 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 Principles of Macroeconomics or Elementary or Intermediate Foreign Language ***Satisfies the State of Missouri government requirement.**	3
Humanities, Arts, and Social Sciences Select 3 hours.					
WRI 102 or WRI 292	College Writing or Professional Writing	3	ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing	3
	No free electives applied to the degree.	0	Electives	Maximum Free Electives	0
	Group 2 Major Requirements	26		Group 2 Major Requirements	26
	Group 1 Core Requirements	19		Group 1 Core Requirements	17
	Total Hours	45		Total Hours*	61

*S&T advisor permission is required to transfer more than 61 credits toward the S&T Engineering Management degree.

Environmental Engineering Group 2 Major Requirements

Cottey College			Semester	Missouri S&T	
WRI 102 or WRI 292 or SPE 101	College Writing or Professional Writing or Fundamentals of Speech	3		ENGLISH 1160 or ENGLISH 3560 or SPMS 1185	Writing and Research or Technical Writing or Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHE 160	General Chemistry I with Lab	5		CHEM 1310, 1319	General Chemistry I and Lab	5
CHE170	General Chemistry II with Lab	5		CHEM 1320	General Chemistry II	3
BIO 101	Introductory Biology and Lab	4		BIO SCI 1113, 1219*	General Biology (3) and Lab* (1) *The lab is not a degree requirement, transfers as general elective credit.	3
STAT 320	Probability and Statistics	3		STAT 3115*	Engineering Statistics* *Will be substituted for STAT 3113.	3
Humanities, Arts, and Social Sciences General Education Requirements From the options listed in each group below, select 12 hours to include 6 hours Humanities and Fine Arts from at least two specific disciplines and 6 hours Behavioral and Social Sciences from at least two specific disciplines. ***At least one course must be selected from HISTORY 1200, 1300, or 1310 to satisfy the State of Missouri government requirement and a degree-specific gen ed requirement.**						
Humanities and Fine Arts Select 6 hours from at least two specific disciplines. At least one course in either the HFA or the BSS (below) section must be selected from HISTORY 1200, 1300, or 1310.						
ENG 201 or ENG 202 or NG 205 or ENG 206 or **HIS 111*** or **HIS 112*** or ART 101 or MUS 101 or Literature	English Literature 1 or English Literature 2 or American Literature 1 or American Literature 2 or **US History to 1877*** or **US History Since 1877*** or Art Appreciation or Music Appreciation or Any literature with prerequisite of no more than English Composition I. ***Satisfies the State of Missouri government requirement.**	6		ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or **HISTORY 1300*** or **HISTORY 1310*** or ART 1180 or MUSIC 1150 or Literature	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 **American History to 1877*** or **American History Since 1877*** or Art Appreciation or Music Appreciation or Any literature with prerequisite of no more than ENGLISH 1120. ***Satisfies the State of Missouri government requirement.**	6
Behavioral and Social Sciences Select 6 hours from at least two specific disciplines.. At least one course in either the HFA (above) or the BSS section must be selected from HISTORY 1200, 1300, or 1310.						
HIS 132* or PHI 101 or PHI 200 or PSY 101 or ECO 202 or ECO 201 or Foreign Language	**World History Since 1500*** or Intro to Philosophy or Logic and Critical Thinking or General Psychology or Principles of Economics II: Microeconomics or Principles of Economics I: Macroeconomics or Elementary or Intermediate Foreign Language ***Satisfies the State of Missouri government requirement.**	6		**HISTORY 1200*** or PHILOS 1105 or PHILOS 1115 or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	**Modern Western Civilization*** or Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language ***Satisfies the State of Missouri government requirement and a degree-specific gen ed requirement.**	6
	No free electives applied to the degree.	0			Maximum Free Electives	0
	Group 2 Major Requirements	32			Group 2 Major Requirements	29
	Group 1 Core Requirements	19			Group 1 Core Requirements	17
	Total Hours	51			Total Hours*	46
					*S&T advisor permission is required to transfer more than 69 credits toward the S&T Environmental Engineering degree.	

Geological Engineering Group 2 Major Requirements

Cottey College			Semester	Missouri S&T		
WRI 292	Professional Writing	3		ENGLISH 3560	Technical Writing Applies to degree as Gen Ed Communication requirement.	3
CHE 160	General Chemistry I with Lab	5		CHEM 1310, 1319	General Chemistry I and Lab	5
CSC 212	Data Structures	3		COMP SCI 1500	Computational Problem Solving	3
STAT 320	Probability and Statistics	3		STAT 3115	Engineering Statistics Will be substituted for STAT 3113.	3
Humanities, Arts, and Social Sciences General Education Requirements From the options listed in each group below, select 15 hours to include 6 hours Humanities and Fine Arts from at least two specific disciplines and 6 hours Behavioral and Social Sciences from at least two specific disciplines. ***At least one course must be selected from HISTORY 1200, 1300, 1310, or POL SCI 1200 to satisfy the State of Missouri government requirement.**						
Humanities and Fine Arts Select 6 hours from at least two specific disciplines.						
ENG 201 or ENG 202 or NG 205 or ENG 206 or **HIS 111*** or **HIS 112*** or ART 101 or MUS 101 or Literature	English Literature 1 or English Literature 2 or American Literature 1 or American Literature 2 or **US History to 1877*** or **US History Since 1877*** or Art Appreciation or Music Appreciation or Any literature with prerequisite of no more than English Composition I. ***Satisfies the State of Missouri government requirement.**	6		ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or **HISTORY 1300*** or **HISTORY 1310*** or ART 1180 or MUSIC 1150 or Literature	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 **American History to 1877*** or **American History Since 1877*** or Art Appreciation or Music Appreciation or Any literature with prerequisite of no more than ENGLISH 1120. ***Satisfies the State of Missouri government requirement.**	6
Behavioral and Social Sciences Select 6 hours from at least two specific disciplines.						
HIS 131 or **HIS 132*** or ENV 125 or PHI 101 or PHI 200 or **POL 101*** or PSY 101 or ECO 202 or ECO 201 or Foreign Language	World History to 1500 or **World History Since 1500*** or World Regional Geography or Intro to Philosophy or Logic and Critical Thinking or **United States Government*** or General Psychology or Principles of Economics II: Microeconomics or Principles of Economics I: 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
Humanities, Arts, and Social Sciences Select 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		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	29			Group 2 Major Requirements	29
	Group 1 Core Requirements	19			Group 1 Core Requirements	17
	Total Hours	48			Total Hours*	64

*S&T advisor permission is required to transfer more than 65 credits toward the S&T Geological Engineering degree.

Mechanical Engineering Group 2 Major Requirements

Cottey College		Semester	Missouri S&T		
WRI 102 or WRI 292 or SPE 101	College Writing or Professional Writing or Fundamentals of Speech	3	ENGLISH 1160 or ENGLISH 3560 or SPMS 1185	Writing and Research or Technical Writing or Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHE 160	General Chemistry I with Lab	5	CHEM 1310*, 1319	General Chemistry I and Lab *CHEM 1310 will be substituted for CHEM 1305.	5
MATH 260 or MATH 320	Linear Algebra or Probability and Statistics	3	MATH 3108 or STAT 3115*	Linear Algebra I or Engineering Statistics* Satisfies the Advanced Math/Comp Sci elective requirement. *STAT 3115 will be substituted for STAT 3113.	3
Humanities, Arts, and Social Sciences General Education Requirements From the options listed in each group below, select 15 hours to include 6 hours Humanities and Fine Arts from at least two specific disciplines and 6 hours Behavioral and Social Sciences from at least two specific disciplines. ***At least one course must be selected from HISTORY 1200, 1300, 1310, or POL SCI 1200 to satisfy the State of Missouri government requirement.**					
Humanities and Fine Arts Select 6 hours from at least two specific disciplines.					
ENG 201 or ENG 202 or NG 205 or ENG 206 or **HIS 111*** or **HIS 112*** or ART 101 or MUS 101 or Literature	English Literature 1 or English Literature 2 or American Literature 1 or American Literature 2 or **US History to 1877*** or **US History Since 1877*** or Art Appreciation or Music Appreciation or Any literature with prerequisite of no more than English Composition I. ***Satisfies the State of Missouri government requirement.**	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or **HISTORY 1300*** or **HISTORY 1310*** or ART 1180 or MUSIC 1150 or Literature	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 **American History to 1877*** or **American History Since 1877*** or Art Appreciation or Music Appreciation or Any literature with prerequisite of no more than ENGLISH 1120. ***Satisfies the State of Missouri government requirement.**	6
Behavioral and Social Sciences Select 6 hours from at least two specific disciplines.					
HIS 131 or **HIS 132*** or ENV 125 or PHI 101 or PHI 200 or **POL 101*** or PSY 101 or ECO 202 or ECO 201 or Foreign Language	World History to 1500 or **World History Since 1500*** or World Regional Geography or Intro to Philosophy or Logic and Critical Thinking or **United States Government*** or General Psychology or Principles of Economics II: Microeconomics or Principles of Economics I: 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
Humanities, Arts, and Social Sciences Select 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	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	26		Group 2 Major Requirements	26
	Group 1 Core Requirements	19		Group 1 Core Requirements	17
	Total Hours	45		Total Hours*	43
				*S&T advisor permission is required to transfer more than 68 credits toward the S&T Mechanical Engineering degree.	

Metallurgical Engineering Group 2 Major Requirements

Cottey College			Semester	Missouri S&T		
WRI 102 or WRI 292 or SPE 101	College Writing or Professional Writing or Fundamentals of Speech	3		ENGLISH 1160 or ENGLISH 3560 or SPMS 1185	Writing and Research or Technical Writing or Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
MATH 320	Probability and Statistics	3		STAT 3115	Engineering Statistics Will be substituted for STAT 3113.	3
CHE 160	General Chemistry I with Lab	5		CHEM 1310, 1319	General Chemistry I and Lab	5
CHE170	General Chemistry II with Lab	5		CHEM 1320	General Chemistry II	3
Humanities, Arts, and Social Sciences General Education Requirements From the options listed in each group below, select 15 hours to include 6 hours Humanities and Fine Arts from at least two specific disciplines and 6 hours Behavioral and Social Sciences from at least two specific disciplines. ***At least one course must be selected from HISTORY 1200, 1300, 1310, or POL SCI 1200 to satisfy the State of Missouri government requirement.**						
Humanities and Fine Arts Select 6 hours from at least two specific disciplines.						
ENG 201 or ENG 202 or NG 205 or ENG 206 or **HIS 111*** or **HIS 112*** or ART 101 or MUS 101 or Literature	English Literature 1 or English Literature 2 or American Literature 1 or American Literature 2 or **US History to 1877*** or **US History Since 1877*** or Art Appreciation or Music Appreciation or Any literature with prerequisite of no more than English Composition I. ***Satisfies the State of Missouri government requirement.**	6		ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or **HISTORY 1300*** or **HISTORY 1310*** or ART 1180 or MUSIC 1150 or Literature	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 **American History to 1877*** or **American History Since 1877*** or Art Appreciation or Music Appreciation or Any literature with prerequisite of no more than ENGLISH 1120. ***Satisfies the State of Missouri government requirement.**	6
Behavioral and Social Sciences Select 6 hours from at least two specific disciplines.						
HIS 131 or **HIS 132*** or ENV 125 or PHI 101 or PHI 200 or **POL 101*** or PSY 101 or ECO 202 or ECO 201 or Foreign Language	World History to 1500 or **World History Since 1500*** or World Regional Geography or Intro to Philosophy or Logic and Critical Thinking or **United States Government*** or General Psychology or Principles of Economics II: Microeconomics or Principles of Economics I: 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
Humanities, Arts, and Social Sciences Select 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		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.	3			Maximum Free Electives	0
	Group 2 Major Requirements	34			Group 2 Major Requirements	29
	Group 1 Core Requirements	19			Group 1 Core Requirements	17
	Total Hours	53			Total Hours*	68
					*S&T advisor permission is required to transfer more than 68 credits toward the S&T Metallurgical Engineering degree.	

Mining Engineering Group 2 Major Requirements

Cottey College		Semester	Missouri S&T		Semester
WRI 102 or WRI 292 or SPE 101	College Writing or Professional Writing or Fundamentals of Speech	3	ENGLISH 1160 or ENGLISH 3560 or SPMS 1185	Writing and Research or Technical Writing or Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
MATH 320	Probability and Statistics	3	STAT 3115	Engineering Statistics	3
CHE 160	General Chemistry I with Lab	5	CHEM 1310, 1319	General Chemistry I and Lab	5
Humanities, Arts, and Social Sciences General Education Requirements From the options listed in each group below, select 12 hours to include 6 hours Humanities and Fine Arts from at least two specific disciplines and 6 hours Behavioral and Social Sciences from at least two specific disciplines. ***At least one course must be selected from HISTORY 1200, 1300, 1310, or POL SCI 1200 to satisfy the State of Missouri government requirement.**					
Humanities and Fine Arts Select 6 hours from at least two specific disciplines.					
ENG 201 or ENG 202 or NG 205 or ENG 206 or **HIS 111*** or **HIS 112*** or ART 101 or MUS 101 or Literature	English Literature 1 or English Literature 2 or American Literature 1 or American Literature 2 or **US History to 1877*** or **US History Since 1877*** or Art Appreciation or Music Appreciation or Any literature with prerequisite of no more than English Composition I. ***Satisfies the State of Missouri government requirement.**	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or **HISTORY 1300*** or **HISTORY 1310*** or ART 1180 or MUSIC 1150 or Literature	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 **American History to 1877*** or **American History Since 1877*** or Art Appreciation or Music Appreciation or Any literature with prerequisite of no more than ENGLISH 1120. ***Satisfies the State of Missouri government requirement.**	6
Behavioral and Social Sciences Select 6 hours from at least two specific disciplines.					
HIS 131 or **HIS 132*** or ENV 125 or PHI 101 or PHI 200 or **POL 101*** or PSY 101 or ECO 202 or ECO 201 or Foreign Language	World History to 1500 or **World History Since 1500*** or World Regional Geography or Intro to Philosophy or Logic and Critical Thinking or **United States Government*** or General Psychology or Principles of Economics II: Microeconomics or Principles of Economics I: 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	23		Group 2 Major Requirements	23
	Group 1 Core Requirements	19		Group 1 Core Requirements	17
	Total Hours	42		Total Hours*	40

*S&T advisor permission is required to transfer more than 68 credits toward the S&T Mining Engineering degree.

Nuclear Engineering Group 2 Major Requirements

Cottey College		Semester	Missouri S&T		
WRI 102 or WRI 292 or SPE 101	College Writing or Professional Writing or Fundamentals of Speech	3	ENGLISH 1160 or ENGLISH 3560 or SPMS 1185	Writing and Research or Technical Writing or Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHE 160	General Chemistry I with Lab	5	CHEM 1310, 1319	General Chemistry I and Lab	5
MATH 260 or MATH 310	Linear Algebra or Foundations of Mathematics	3	MATH 3108 or MATH 3109	Linear Algebra or Foundations of Mathematics	3
STAT 320	Probability and Statistics	3	STAT 3115	Engineering Statistics Will be substituted for the statistics requirement.	3
Humanities, Arts, and Social Sciences General Education Requirements From the options listed in each group below, select 15 hours to include 6 hours Humanities and Fine Arts from at least two specific disciplines and 6 hours Behavioral and Social Sciences from at least two specific disciplines. ***At least one course must be selected from HISTORY 1200, 1300, 1310, or POL SCI 1200 to satisfy the State of Missouri government requirement.**					
Humanities and Fine Arts Select 6 hours from at least two specific disciplines.					
ENG 201 or ENG 202 or NG 205 or ENG 206 or **HIS 111*** or **HIS 112*** or ART 101 or MUS 101 or Literature	English Literature 1 or English Literature 2 or American Literature 1 or American Literature 2 or **US History to 1877*** or **US History Since 1877*** or Art Appreciation or Music Appreciation or Any literature with prerequisite of no more than English Composition I. ***Satisfies the State of Missouri government requirement.**	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or **HISTORY 1300*** or **HISTORY 1310*** or ART 1180 or MUSIC 1150 or Literature	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 **American History to 1877*** or **American History Since 1877*** or Art Appreciation or Music Appreciation or Any literature with prerequisite of no more than ENGLISH 1120. ***Satisfies the State of Missouri government requirement.**	6
Behavioral and Social Sciences Select 6 hours from at least two specific disciplines to include either ECON 1100 or 1200.					
ECO 202 or ECO 201	Principles of Economics II: Microeconomics or Principles of Economics I: Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
HIS 131 or **HIS 132*** or ENV 125 or PHI 101 or PHI 200 or **POL 101*** or PSY 101 or Foreign Language	World History to 1500 or **World History Since 1500*** or World Regional Geography or Intro to Philosophy or Logic and Critical Thinking or **United States Government*** or General Psychology 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 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, Arts, and Social Sciences Select 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	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	29		Group 2 Major Requirements	29
	Group 1 Core Requirements	19		Group 1 Core Requirements	17
	Total Hours	48		Total Hours*	46
				*S&T advisor permission is required to transfer more than 69 credits toward the S&T Nuclear Engineering degree.	

Petroleum Engineering Group 2 Major Requirements

Cottey College			Semester	Missouri S&T		
WRI 102 or WRI 292 or SPE 101	College Writing or Professional Writing or Fundamentals of Speech	3		ENGLISH 1160 or ENGLISH 3560 or SPMS 1185	Writing and Research or Technical Writing or Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHE 160	General Chemistry I with Lab	5		CHEM 1310*, 1319	General Chemistry I and Lab *CHEM 1310 will be substituted for CHEM 1305.	5
CSC 212	Data Structures	3		COMP SCI 1500	Computational Problem Solving	3
STAT 320	Probability and Statistics	3		STAT 3115	Engineering Statistics Will be substituted for the statistics requirement.	3
Humanities, Arts, and Social Sciences General Education Requirements From the options listed in each group below, select 15 hours to include 6 hours Humanities and Fine Arts from at least two specific disciplines and 6 hours Behavioral and Social Sciences from at least two specific disciplines. ***At least one course must be selected from HISTORY 1200, 1300, 1310, or POL SCI 1200 to satisfy the State of Missouri government requirement.**						
Humanities and Fine Arts Select 6 hours from at least two specific disciplines.						
ENG 201 or ENG 202 or NG 205 or ENG 206 or **HIS 111*** or **HIS 112*** or ART 101 or MUS 101 or Literature	English Literature 1 or English Literature 2 or American Literature 1 or American Literature 2 or **US History to 1877*** or **US History Since 1877*** or Art Appreciation or Music Appreciation or Any literature with prerequisite of no more than English Composition I. ***Satisfies the State of Missouri government requirement.**	6		ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or **HISTORY 1300*** or **HISTORY 1310*** or ART 1180 or MUSIC 1150 or Literature	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 **American History to 1877*** or **American History Since 1877*** or Art Appreciation or Music Appreciation or Any literature with prerequisite of no more than ENGLISH 1120. ***Satisfies the State of Missouri government requirement.**	6
Behavioral and Social Sciences Select 6 hours from at least two specific disciplines.						
HIS 131 or **HIS 132*** or ENV 125 or PHI 101 or PHI 200 or **POL 101*** or PSY 101 or ECO 202 or ECO 201 or Foreign Language	World History to 1500 or **World History Since 1500*** or World Regional Geography or Intro to Philosophy or Logic and Critical Thinking or **United States Government*** or General Psychology or Principles of Economics II: Microeconomics or Principles of Economics I: 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
Humanities, Arts, and Social Sciences Select 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		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	29			Group 2 Major Requirements	29
	Group 1 Core Requirements	19			Group 1 Core Requirements	17
	Total Hours	48			Total Hours*	46
					*S&T advisor permission is required to transfer more than 69 credits toward the S&T Petroleum Engineering degree.	

Semiconductor Engineering-Device Engineering Emphasis
Group 2 Major Requirements

Cottey College		Semester	Missouri S&T		
WRI 102 or WRI 292 or SPE 101	College Writing or Professional Writing or Fundamentals of Speech	3	ENGLISH 1160 or ENGLISH 3560 or SPMS 1185	Writing and Research or Technical Writing or Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHE 160	General Chemistry I with Lab	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHE170	General Chemistry II with Lab	5	CHEM 1320	General Chemistry II	3
STAT 320	Probability and Statistics	3	STAT 3115	Engineering Statistics Will be substituted for STAT 3117.	3
CSC 212	Data Structures	3	COMP SCI 1500	Computational Problem Solving	3
Humanities, Arts, and Social Sciences General Education Requirements From the options listed in each group below, select 15 hours to include 6 hours Humanities and Fine Arts from at least two specific disciplines and 6 hours Behavioral and Social Sciences from at least two specific disciplines. ***At least one course must be selected from HISTORY 1200, 1300, 1310, or POL SCI 1200 to satisfy the State of Missouri government requirement.**					
Humanities and Fine Arts Select 6 hours from at least two specific disciplines.					
ENG 201 or ENG 202 or NG 205 or ENG 206 or **HIS 111*** or **HIS 112*** or ART 101 or MUS 101 or Literature	English Literature 1 or English Literature 2 or American Literature 1 or American Literature 2 or **US History to 1877*** or **US History Since 1877*** or Art Appreciation or Music Appreciation or Any literature with prerequisite of no more than English Composition I. ***Satisfies the State of Missouri government requirement.**	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or **HISTORY 1300*** or **HISTORY 1310*** or ART 1180 or MUSIC 1150 or Literature	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 **American History to 1877*** or **American History Since 1877*** or Art Appreciation or Music Appreciation or Any literature with prerequisite of no more than ENGLISH 1120. ***Satisfies the State of Missouri government requirement.**	6
Behavioral and Social Sciences Select 6 hours from at least two specific disciplines.					
HIS 131 or **HIS 132*** or ENV 125 or PHI 101 or PHI 200 or **POL 101*** or PSY 101 or ECO 202 or ECO 201 or Foreign Language	World History to 1500 or **World History Since 1500*** or World Regional Geography or Intro to Philosophy or Logic and Critical Thinking or **United States Government*** or General Psychology or Principles of Economics II: Microeconomics or Principles of Economics I: 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
Humanities, Arts, and Social Sciences Select 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	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	37		Group 2 Major Requirements	35
	Group 1 Core Requirements	19		Group 1 Core Requirements	17
	Total Hours	56		Total Hours*	52

*S&T advisor permission is required to transfer more than 68 credits toward the S&T Ceramic Engineering degree.

Semiconductor Engineering-Process Engineering Emphasis
Group 2 Major Requirements

Cottey College		Semester	Missouri S&T		
WRI 102 or WRI 292 or SPE 101	College Writing or Professional Writing or Fundamentals of Speech	3	ENGLISH 1160 or ENGLISH 3560 or SPMS 1185	Writing and Research or Technical Writing or Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHE 160	General Chemistry I with Lab	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHE170	General Chemistry II with Lab	5	CHEM 1320	General Chemistry II	3
STAT 320	Probability and Statistics	3	STAT 3115	Engineering Statistics Will be substituted for STAT 3113.	3
CSC 212	Data Structures	3	COMP SCI 1500	Computational Problem Solving	3
Humanities, Arts, and Social Sciences General Education Requirements From the options listed in each group below, select 15 hours to include 6 hours Humanities and Fine Arts from at least two specific disciplines and 6 hours Behavioral and Social Sciences from at least two specific disciplines. ***At least one course must be selected from HISTORY 1200, 1300, 1310, or POL SCI 1200 to satisfy the State of Missouri government requirement.**					
Humanities and Fine Arts Select 6 hours from at least two specific disciplines.					
ENG 201 or ENG 202 or NG 205 or ENG 206 or **HIS 111*** or **HIS 112*** or ART 101 or MUS 101 or Literature	English Literature 1 or English Literature 2 or American Literature 1 or American Literature 2 or **US History to 1877*** or **US History Since 1877*** or Art Appreciation or Music Appreciation or Any literature with prerequisite of no more than English Composition I. ***Satisfies the State of Missouri government requirement.**	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or **HISTORY 1300*** or **HISTORY 1310*** or ART 1180 or MUSIC 1150 or Literature	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 **American History to 1877*** or **American History Since 1877*** or Art Appreciation or Music Appreciation or Any literature with prerequisite of no more than ENGLISH 1120. ***Satisfies the State of Missouri government requirement.**	6
Behavioral and Social Sciences Select 6 hours from at least two specific disciplines.					
HIS 131 or **HIS 132*** or ENV 125 or PHI 101 or PHI 200 or **POL 101*** or PSY 101 or ECO 202 or ECO 201 or Foreign Language	World History to 1500 or **World History Since 1500*** or World Regional Geography or Intro to Philosophy or Logic and Critical Thinking or **United States Government*** or General Psychology or Principles of Economics II: Microeconomics or Principles of Economics I: 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
Humanities, Arts, and Social Sciences Select 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	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	37		Group 2 Major Requirements	35
	Group 1 Core Requirements	19		Group 1 Core Requirements	17
	Total Hours	56		Total Hours*	52

*S&T advisor permission is required to transfer more than 68 credits toward the S&T Ceramic Engineering degree.