

Morehouse College — Missouri S&T

General Engineering

Transfer Guide Effective as of Fall 2025

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

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

Group 1 - Core Requirements: All Majors Take All Courses

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

Morehouse College			Semester	Missouri S&T		
MTH 161	Calculus I	4		MATH 1214	Calculus I Grade of C or better is required.	4
MTH 162* and MTH 263*	Calculus II* and Calculus III* *The combination of Morehouse MTH 162 and 263 is equivalent to the combination of Missouri S&T MATH 1215 and 2222. Both courses must be taken to receive credit.	8		MATH 1215* and MATH 2222*	Calculus II* and Calculus III* A grade of C or better is required in both courses. *The combination of Morehouse MTH 162 and 263 is equivalent to the combination of Missouri S&T MATH 1215 and 2222. Both courses must be taken to receive credit.	8
MTH 321	Intro to Ordinary Differential Equations	3		MATH 3304	Elementary Differential Equations	3
PHY 154	Mechanics	4		PHYSICS 1135	Engineering Physics I Grade of C or better is required.	4
PHY 253	Electricity and Magnetism	4		PHYSICS 2135	Engineering Physics II Grade of C or better is required.	4
EGR 101* and EGR 103*	Freshman Engineering Design* (3) and Engineering Graphics* (3) The combination of Morehouse EGR 101 and EGR 103 is equivalent to the combination of Missouri S&T FR ENG 1100 and MECH ENG 1720. Both courses must be taken to receive credit.	6		FR ENG 1100* and MECH ENG 1720*	Study and Careers in Engineering and Computing* (1) and Engineering Design with Computer Applications* (3) The combination of Morehouse EGR 101 and 103 is equivalent to the combination of Missouri S&T FR ENG 1100 and MECH ENG 1720. Both courses must be taken to receive credit. MECH ENG 1720 is not an S&T degree requirement for Computer Engineering or Biomedical Engineering.	4
ENG 101 or ENG 103	English Composition I or II Upper-Level Composition	3		ENGLISH 1120	Exposition and Argumentation	3
		Total Hours	32			Total Hours 30

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

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

Aerospace Engineering
Architectural Engineering
Biomedical Engineering/Biomanufacturing or Biomaterials
Ceramic Engineering
Chemical Engineering and Biochemistry Emphasis
Civil Engineering
Computer Engineering
Electrical Engineering

Engineering Management
Environmental Engineering
Geological Engineering
Mechanical Engineering
Metallurgical Engineering
Mining Engineering
Nuclear Engineering
Petroleum Engineering

Engineering Major Requirements are detailed on the following pages.

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

This transfer guide is published by Missouri University of Science and Technology and is in effect as of Fall 2025.
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

Morehouse College		Semester	Missouri S&T		
ENG 102 or ENG 393 or COM 253	English Composition or Business and Professional Writing or Public Speaking	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 111, 111L	Elementary Inorganic Chemistry I and Lab	4	CHEM 1310*, 1319	General Chemistry I* and Lab *CHEM 1310 will be substituted for CHEM 1305.	5
CSC 110 or CSC 160	Computer Programming I or Computer Programming II	3	COMP SCI 1971,1981	Intro to Programming Methodology and Lab* C++)	3
EGR 205	Engineering Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
EGR 206	Mechanics of Materials	3	CIV ENG 2210	Mechanics of Materials	3
MTH 271 or MTH 341	Intro to Linear Algebra or Probability and Statistics I	3	MATH 3108 or STAT 3115	Linear Algebra I or Engineering Statistics Satisfies the Advanced Math/Comp Sci elective requirement.	3
PHI 302	Intro to Philosophical 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 271 or ENG 272 or ENG 363 or ENG 364 or ENG 250 or HIS 215* or HIS 216* or ART 110 or MUS 111	Survey of English Literature I or Survey of English Literature II or Survey of American Literature I or Survey of American Literature II or World Literature or History of the United States to 1876* or History of the United States Since 1876* or Survey of Visual Arts or Masterpieces of Music *Satisfies the State of Missouri government requirement.	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 0	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance or American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
Behavioral and Social Sciences Select 6 hours from at least two specific disciplines.					
HIS 111 or HIS 112* or PHI 201 or PHI 301 or PSC 251* or PSY 101 or ECO 202 or ECO 201 or Foreign Language	World History: Topical Approaches or World History: Topical Approaches* or Intro to Philosophy or Formal Logic or National Government* or Intro to Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6	HISTORY 1100 or HISTORY 1200* 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 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		37	Group 2 Major Requirements		38
Group 1 Core Requirements		32	Group 1 Core Requirements		30
Total Hours		69			Total Hours* 68
*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

Morehouse College			Semester	Missouri S&T	
ENG 102 or ENG 393 or COM 253	English Composition or Business and Professional Writing or Public Speaking	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 111, 111L	Elementary Inorganic Chemistry I and Lab	4	CHEM 1310*, 1319	General Chemistry I* and Lab *CHEM 1310 will be substituted for CHEM 1305.	5
EGR 205	Engineering Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
EGR 208	Engineering Dynamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics	2
EGR 206	Mechanics of Materials	3	CIV ENG 2210	Mechanics of Materials	3
MTH 341	Probability and Statistics I	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, 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 271 or ENG 272 or ENG 363 or ENG 364 or ENG 250 or HIS 215* or HIS 216* or ART 110 or MUS 111	Survey of English Literature I or Survey of English Literature II or Survey of American Literature I or Survey of American Literature II or World Literature or History of the United States to 1876* or History of the United States Since 1876* or Survey of Visual Arts or Masterpieces of Music *Satisfies the State of Missouri government requirement.	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 0	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance or American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
Behavioral and Social Sciences Select 6 hours from at least two specific disciplines to include HISTORY 1200.					
HIS 112*	World History: Topical Approaches* *Satisfies the State of Missouri Government requirement.	3	HISTORY 1200*	Modern Western Civilization* *Satisfies the State of Missouri Government requirement.	3
PHI 201 or PHI 301 or PSC 251* or PSY 101 or ECO 202 or ECO 201 or Foreign Language	Intro to Philosophy or Formal Logic or National Government* or Intro to Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	3	PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government* or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	3
No free electives applied to the degree.		0	Maximum Free Electives		0
Group 2 Major Requirements		31	Group 2 Major Requirements		31
Group 1 Core Requirements		32	Group 1 Core Requirements		30
Total Hours		63	Total Hours*		61
*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

Morehouse College		Semester	Missouri S&T		
COM 253	Public Speaking	3	SP&MS 1185	Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHE 111, 111L	Elementary Inorganic Chemistry I and Lab	4	CHEM 1310, 1319	General Chemistry I and Lab	5
CHE 112, 112L	Elementary Inorganic Chemistry II and Lab	4	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) *CHEM 1510 is not a degree requirement, transfers as general elective credit.	3
CHE 231, 231L	Elementary Organic Chemistry I and Lab	4	CHEM 2210, 2219	Organic Chemistry I and Lab	4
CHE 232, 232L or BIO 111, 111L or BIO 215	Elementary Organic Chemistry II and Lab or Cell and Molecular Biology or Molecular Genetics	4	CHEM 2220, 2229 or BIO SCI 1113, 1219 or BIO SCI 2223	Organic Chemistry II and Lab or General Biology and Lab or General Genetics Applies to degree as Track Elective.	4
BIO 351, 351L	Cell Biology and Lab	4	BIO SCI 2213, 2219	Cell Biology and Lab	4
CSC 110 or CSC 160	Computer Programming I or Computer Programming II	3	COMP SCI 1971,1981*	Intro to Programming Methodology and Lab* C++ *Will be substituted for COMP SCI 1500.	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 271 or ENG 272 or ENG 363 or ENG 364 or ENG 250 or HIS 215* or HIS 216* or ART 110 or MUS 111	Survey of English Literature I or Survey of English Literature II or Survey of American Literature I or Survey of American Literature II or World Literature or History of the United States to 1876* or History of the United States Since 1876* or Survey of Visual Arts or Masterpieces of Music *Satisfies the State of Missouri government requirement.	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 0	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance or American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
Behavioral and Social Sciences Select 3 hours.					
HIS 111 or HIS 112* or PSC 251* or PSY 101 or ECO 202 or ECO 201 or Foreign Language	World History: Topical Approaches or World History: Topical Approaches* or National Government* or Intro to Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	3	HISTORY 1100 or HISTORY 1200* or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Early Western Civilization or Modern Western Civilization* or American Government* or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	3
Humanities, Arts, and Social Sciences ENGLISH 3560 required.					
ENG 393	Business and Professional Writing	3	ENGLISH 3560	Technical Writing	3
No free electives applied to the degree.		0	Maximum Free Electives		0
Group 2 Major Requirements		38	Group 2 Major Requirements		38
Group 1 Core Requirements		32	Group 1 Core Requirements		30
Total Hours		70			Total Hours* 68
*S&T advisor permission is required to transfer more than 69 credit hours toward the degree.					

Biomedical Engineering-Biomaterials Group 2 Major Requirements

Morehouse College			Semester	Missouri S&T	
COM 253	Public Speaking	3	SP&MS 1185	Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHE 111, 111L	Elementary Inorganic Chemistry I and Lab	4	CHEM 1310, 1319	General Chemistry I and Lab	5
CHE 112, 112L	Elementary Inorganic Chemistry II and Lab	4	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) *CHEM 1510 is not a degree requirement, transfers as general elective credit.	3
CHE 231, 231L	Elementary Organic Chemistry I and Lab	4	CHEM 2210, 2219*	Organic Chemistry I and Lab* *CHEM 2219 Lab applies to the degree as a Track Elective (non-engineering).	4
CHE 232, 232L	Elementary Organic Chemistry II and Lab	4	CHEM 2220, 2229*	Organic Chemistry II and Lab* CHEM 2229 Lab applies to the degree as a Track Elective (non-engineering).	4
BIO 111, 111L	Cell and Molecular Biology	4	BIO SCI 1113*, 1219*	General Biology* and Lab* *Applies to degree as Track Elective (Non-engineering).	4
BIO 351, 351L	Cell Biology and Lab	4	BIO SCI 2213, 2219	Cell Biology and Lab	4
CSC 110 or CSC 160	Computer Programming I or Computer Programming II	3	COMP SCI 1971,1981*	Intro to Programming Methodology and Lab* C++ *Will be substituted for COMP SCI 1500.	3
EGR 205	Engineering Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	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 271 or ENG 272 or ENG 363 or ENG 364 or ENG 250 or HIS 215* or HIS 216* or ART 110 or MUS 111	Survey of English Literature I or Survey of English Literature II or Survey of American Literature I or Survey of American Literature II or World Literature or History of the United States to 1876* or History of the United States Since 1876* or Survey of Visual Arts or Masterpieces of Music *Satisfies the State of Missouri government requirement.	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 0	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance or American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
Behavioral and Social Sciences Select 3 hours.					
HIS 111 or HIS 112* or PSC 251* or PSY 101 or ECO 202 or ECO 201 or Foreign Language	World History: Topical Approaches or World History: Topical Approaches* or National Government* or Intro to Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	3	HISTORY 1100 or HISTORY 1200* or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Early Western Civilization or Modern Western Civilization* or American Government* or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	3
Humanities, Arts, and Social Sciences ENGLISH 3560 required.					
ENG 393	Business and Professional Writing	3	ENGLISH 3560	Technical Writing	3
No free electives applied to the degree.		0	Maximum Free Electives		0
Group 2 Major Requirements		45	Group 2 Major Requirements		45
Group 1 Core Requirements		32	Group 1 Core Requirements		30
Total Hours		77			Total Hours* 75
*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

Morehouse College			Semester	Missouri S&T		
ENG 102 or ENG 393 or COM 253	English Composition or Business and Professional Writing or Public Speaking	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	
EGR 205	Engineering Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3	
EGR 206	Mechanics of Materials	3	CIV ENG 2210	Mechanics of Materials	3	
CHE 111, 111L	Elementary Inorganic Chemistry I and Lab	4	CHEM 1310, 1319	General Chemistry I and Lab	5	
CHE 112	Elementary Inorganic Chemistry II	3	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) *CHEM 1510 is not a degree requirement, transfers as general elective credit.	3	
CHE 231 or CHE 321	Elementary Organic Chemistry I (4) or Elementary Physical Chemistry (3)	3	CHEM 2210, 2219* or CHEM 2310	Organic Chemistry I (3) and Lab* (1) or Inorganic Chemistry I (3) Satisfies the advanced chemistry elective requirement. *The lab is not a degree requirement, transfers as general elective credit.	3	
MTH 341	Probability and Statistics	3	STAT 3115	Engineering Statistics or any statistics course 3000-level or higher. Satisfies statistics elective requirement.	3	
PHY 254	Optics and Modern Physics	4	PHYS 2305	Intro to Modern Physics	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 271 or ENG 272 or ENG 363 or ENG 364 or ENG 250 or HIS 215* or HIS 216* or ART 110 or MUS 111	Survey of English Literature I or Survey of English Literature II or Survey of American Literature I or Survey of American Literature II or World Literature or History of the United States to 1876* or History of the United States Since 1876* or Survey of Visual Arts or Masterpieces of Music *Satisfies the State of Missouri government requirement.	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 0	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance or American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6	
Behavioral and Social Sciences Select 6 hours from at least two specific disciplines.						
HIS 111 or HIS 112* or PHI 201 or PHI 301 or PSC 251* or PSY 101 or ECO 202 or ECO 201 or Foreign Language	World History: Topical Approaches or World History: Topical Approaches* or Intro to Philosophy or Formal Logic or National Government* or Intro to Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6	HISTORY 1100 or HISTORY 1200* 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 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		41	Group 2 Major Requirements		41	
Group 1 Core Requirements		32	Group 1 Core Requirements		30	
Total Hours		73			Total Hours*	71
*S&T advisor permission is required to transfer more than 68 credits toward the S&T Ceramic Engineering degree.						

*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

Morehouse College		Semester	Missouri S&T			
COM 253	Public Speaking	3	SP&MS 1185	Principles of Speech Applies to degree as Gen Ed Communication requirement.	3	
CHE 111, 111L	Elementary Inorganic Chemistry I and Lab	4	CHEM 1310, 1319	General Chemistry I and Lab	5	
CHE 112	Elementary Inorganic Chemistry II	3	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis* (2) *CHEM 1510 is not a degree requirement, transfers as general elective credit.	3	
CHE 231, 231L	Elementary Organic Chemistry I and Lab	4	CHEM 2210, 2219*	Organic Chemistry I and Lab* *CHEM 2210 is a degree requirement. CHEM 2219 applies to the degree as 1 of 9 required science elective credits. See note below .	4	
CHE 232, 232L or BIO 351, 351L or BIO 321-322, 321-322L	Elementary Organic Chemistry II and Lab (4) or Cell Biology and Lab (4) or Special Topics: Principles of Microbiology and Lab (4) Select up to 9 hours from these options or CHEM 2219 Organic Chemistry Lab.	8	CHEM 2220 or BIO SCI 2213, 2219 or BIO SCI 3313, 3319	Organic Chemistry II (3) or Cell Biology and Lab (4) or Microbiology and Lab (5) Applies to the degree as required science elective credits. Select up to 9 hours from these options or CHEM 2219 Organic Chemistry Lab.	8	
CSC 110 or CSC 160	Computer Programming I or Computer Programming II	3	COMP SCI 1971,1981*	Intro to Programming Methodology and Lab* C++ *Will be substituted for COMP SCI 1500.	3	
MTH 341	Probability and Statistics I	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 271 or ENG 272 or ENG 363 or ENG 364 or ENG 250 or HIS 215* or HIS 216* or ART 110 or MUS 111	Survey of English Literature I or Survey of English Literature II or Survey of American Literature I or Survey of American Literature II or World Literature or History of the United States to 1876* or History of the United States Since 1876* or Survey of Visual Arts or Masterpieces of Music *Satisfies the State of Missouri government requirement.	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 0	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance or American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6	
Behavioral and Social Sciences Select 6 hours from at least two specific disciplines.						
HIS 111 or HIS 112* or PHI 201 or PHI 301 or PSC 251* or PSY 101 or ECO 202 or ECO 201 or Foreign Language	World History: Topical Approaches or World History: Topical Approaches* or Intro to Philosophy or Formal Logic or National Government* or Intro to Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6	HISTORY 1100 or HISTORY 1200* 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 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.						
ENG 393	Business and Professional Writing	3	ENGLISH 3560	Technical Writing	3	
No free electives applied to the degree.		0	Maximum Free Electives		0	
Group 2 Major Requirements		43	Group 2 Major Requirements		44	
Group 1 Core Requirements		32	Group 1 Core Requirements		30	
Total Hours		75			Total Hours*	74
*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

Morehouse College		Semester	Missouri S&T		
ENG 102 or ENG 393 or COM 253	English Composition or Business and Professional Writing or Public Speaking	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 111, 111L	Elementary Inorganic Chemistry I and Lab	4	CHEM 1310, 1319	General Chemistry I and Lab	5
EGR 205	Engineering Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
EGR 208	Engineering Dynamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics	2
EGR 206	Mechanics of Materials	3	CIV ENG 2210	Mechanics of Materials	3
MTH 341	Probability and Statistics I	3	STAT 3115*	Engineering Statistics*	3
*Will be substituted for STAT 3113.					
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 271 or ENG 272 or ENG 363 or ENG 364 or ENG 250 or HIS 215* or HIS 216* or ART 110 or MUS 111	Survey of English Literature I or Survey of English Literature II or Survey of American Literature I or Survey of American Literature II or World Literature or History of the United States to 1876* or History of the United States Since 1876* or Survey of Visual Arts or Masterpieces of Music *Satisfies the State of Missouri government requirement.	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 0	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance or American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
Behavioral and Social Sciences					
Select 6 hours from at least two specific disciplines.					
HIS 111 or HIS 112* or PHI 201 or PHI 301 or PSC 251* or PSY 101 or ECO 202 or ECO 201 or Foreign Language	World History: Topical Approaches or World History: Topical Approaches* or Intro to Philosophy or Formal Logic or National Government* or Intro to Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6	HISTORY 1100 or HISTORY 1200* 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 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		34	Group 2 Major Requirements		34
Group 1 Core Requirements		32	Group 1 Core Requirements		30
Total Hours		66	Total Hours*		64
*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

Morehouse College		Semester	Missouri S&T		
COM 253	Public Speaking	3	SPMS 1185	Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHE 111, 111L	Elementary Inorganic Chemistry I and Lab	4	CHEM 1310, 1319	General Chemistry I and Lab	5
MTH 211 or CSC 285	Intro to Discrete Mathematics or Discrete Structures	3	COMP SCI 1200	Discrete Math for Computer Science	3
CSC 110 or CSC 160	Computer Programming I or Computer Programming II	3	COMP SCI 1971,1981*	Intro to Programming Methodology and Lab* *Will be substituted for COMP SCI 1500.	3
EGR 205 or EGR 308 or PHY 254 or CHE 231, 231L or BIO 111 or BIO 215	Engineering Statics (3) or Engineering Dynamics (3) or Optics & Modern Physics (4) or Elementary Organic Chemistry I (3) and Lab (1) or Cell and Molecular Biology (4) or Molecular Genetics (3)	3	CIV ENG 2200 or MECH ENG 2350 or PHYSICS 2305 or CHEM 2210, 2219* or BIO SCI 2213 or BIO SCI 2223	Engineering Mechanics-Statics (3) or Engineering Mechanics-Dynamics (2) or Intro to Modern Physics (3) or Organic Chemistry I (3) and Lab* (1) or Cell Biology (3) or General Genetics (3) Satisfies a required engineering/science elective. *CHEM 2219 is not a Missouri S&T degree requirement, will transfer as general elective credit.	3
MTH 271 or MTH 255	Intro to Linear Algebra or Intro to Set Theory	3	MATH 3108 or MATH 3109	Linear Algebra or Foundations of Mathematics Satisfies a required math elective.	3
MTH 341	Probability and Statistics I	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 271 or ENG 272 or ENG 363 or ENG 364 or ENG 250 or HIS 215* or HIS 216* or ART 110 or MUS 111	Survey of English Literature I or Survey of English Literature II or Survey of American Literature I or Survey of American Literature II or World Literature or History of the United States to 1876* or History of the United States Since 1876* or Survey of Visual Arts or Masterpieces of Music *Satisfies the State of Missouri government requirement.	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 0	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance or American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
Behavioral and Social Sciences Select 6 hours from at least two specific disciplines.					
HIS 111 or HIS 112* or PHI 201 or PHI 301 or PSC 251* or PSY 101 or ECO 202 or ECO 201 or Foreign Language	World History: Topical Approaches or World History: Topical Approaches* or Intro to Philosophy or Formal Logic or National Government* or Intro to Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6	HISTORY 1100 or HISTORY 1200* 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 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.					
ENG 102 or ENG 393	English Composition or Business and 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	40		Group 2 Major Requirements	41
	Group 1 Core Requirements	32		Group 1 Core Requirements	30
	Total Hours	72		Total Hours*	71
*S&T advisor permission is required to transfer more than 68 credits toward the S&T Computer Engineeringin degree.					

*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

Morehouse College			Semester	Missouri S&T	
COM 253	Public Speaking	3	SPMS 1185	Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHE 111, 111L	Elementary Inorganic Chemistry I and Lab	4	CHEM 1310, 1319	General Chemistry I and Lab	5
CSC 110 or CSC 160	Computer Programming I or Computer Programming II	3	COMP SCI 1971,1981*	Intro to Programming Methodology and Lab* *Will be substituted for COMP SCI 1500.	3
EGR 205 and EGR 308 (BOTH of the courses above or the course below.) OR PHY 254 or CHE 231, 231L or BIO 111 or BIO 215	Engineering Statics (3) and Engineering Dynamics (3) (Both courses above combined or the one course below will satisfy a required engineering science elective.) OR Optics and Modern Physics or Elementary Organic Chemistry I (3) and Lab* (1) or Cell and Molecular Biology (4) or Molecular Genetics (3)	3	CIV ENG 2200 and MECH ENG 2350 BOTH of the courses above or ONE of the courses below. OR PHYSICS 2305 or CHEM 2210, 2219* or BIO SCI 2213 or BIO SCI 2223	Engineering Mechanics-Statics (3) and Engineering Mechanics-Dynamics (2) Both courses above combined or any one of the following courses will satisfy a required engineering science elective. OR Intro to Modern Physics (3) or Organic Chemistry I (3) and Lab* (1) or Cell Biology (3) or General Genetics (3) Satisfies a required engineering/science elective. *CHEM 2219 is not a Missouri S&T degree requirement, will transfer as general elective credit.	3
MTH 271	Intro to Linear Algebra	3	MATH 3108	Linear Algebra	3
MTH 341	Probability and Statistics I	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 271 or ENG 272 or ENG 363 or ENG 364 or ENG 250 or HIS 215* or HIS 216* or ART 110 or MUS 111	Survey of English Literature I or Survey of English Literature II or Survey of American Literature I or Survey of American Literature II or World Literature or History of the United States to 1876* or History of the United States Since 1876* or Survey of Visual Arts or Masterpieces of Music *Satisfies the State of Missouri government requirement.	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 0	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance or American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
Behavioral and Social Sciences Select 6 hours from at least two specific disciplines.					
HIS 111 or HIS 112* or PHI 201 or PHI 301 or PSC 251* or PSY 101 or ECO 202 or ECO 201 or Foreign Language	World History: Topical Approaches or World History: Topical Approaches* or Intro to Philosophy or Formal Logic or National Government* or Intro to Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6	HISTORY 1100 or HISTORY 1200* 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 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.					
ENG 102 or ENG 393	English Composition or Business and 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	40		Group 2 Major Requirements	41
	Group 1 Core Requirements	32		Group 1 Core Requirements	30
	Total Hours	72		Total Hours*	71
*S&T advisor permission is required to transfer more than 68 credits toward the S&T Electrical Engineering degree.					

*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

Morehouse College			Semester	Missouri S&T		
COM 253	Public Speaking	3	SPMS 1185	Principles of Speech Applies to degree as Gen Ed Communication requirement.	3	
CHE 111, 111L	Elementary Inorganic Chemistry I and Lab	4	CHEM 1310, 1319	General Chemistry I and Lab	5	
CSC 110 or CSC 160	Computer Programming I or Computer Programming II	3	COMP SCI 1971, 1981	Intro to Programming Method and Lab (C++)	3	
EGR 205	Engineering Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3	
EGR 208	Engineering Dynamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics	2	
EGR 206	Mechanics of Materials	3	CIV ENG 2210	Mechanics of Materials	3	
MTH 341	Probability and Statistics I	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 271 or ENG 272 or ENG 363 or ENG 364 or ENG 250 or HIS 215* or HIS 216* or ART 110 or MUS 111	Survey of English Literature I or Survey of English Literature II or Survey of American Literature I or Survey of American Literature II or World Literature or History of the United States to 1876* or History of the United States Since 1876* or Survey of Visual Arts or Masterpieces of Music *Satisfies the State of Missouri government requirement.	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 0	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance or American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6	
Behavioral and Social Sciences Select 6 hours from at least two specific disciplines to include PSYCH 1101.						
PSY 101	Intro to Psychology	3	PSYCH 1101	General Psychology Required	3	
HIS 111 or HIS 112* or PHI 201 or PHI 301 or PSC 251* or ECO 202 or ECO 201 or Foreign Language	World History: Topical Approaches or World History: Topical Approaches* or Intro to Philosophy or Formal Logic or National Government* or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	3	HISTORY 1100 or HISTORY 1200* or 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 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.						
ENG 102 or ENG 393	English Composition or Business and Professional Writing	3	ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing	3	
	<i>No free electives applied to the degree.</i>	0	Electives	Maximum Free Electives	0	
	Group 2 Major Requirements	37		Group 2 Major Requirements	37	
	Group 1 Core Requirements	32		Group 1 Core Requirements	30	
	Total Hours	69			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

Morehouse College		Semester	Missouri S&T		
ENG 102 or ENG 393 or COM 253	English Composition or Business and Professional Writing or Public Speaking	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 111, 111L	Elementary Inorganic Chemistry I and Lab	4	CHEM 1310, 1319	General Chemistry I and Lab	5
CHE 112	Elementary Inorganic Chemistry II	3	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) *CHEM 1510 is not a degree requirement, transfers as general elective credit.	3
BIO 101 or BIO 113	Biological Science for Non-Majors (3) or Comprehensive Biology (4)	3	BIO SCI 1113, 1219*	General Biology (3) and Lab* (1) *The lab is not a degree requirement, transfers as general elective credit.	3
EGR 205	Engineering Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
EGR 208	Engineering Dynamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics	2
EGR 206	Mechanics of Materials	3	CIV ENG 2210	Mechanics of Materials	3
MTH 341	Probability and Statistics I	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, 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 271 or ENG 272 or ENG 363 or ENG 364 or ENG 250 or HIS 215* or HIS 216* or ART 110 or MUS 111	Survey of English Literature I or Survey of English Literature II or Survey of American Literature I or Survey of American Literature II or World Literature or History of the United States to 1876* or History of the United States Since 1876* or Survey of Visual Arts or Masterpieces of Music *Satisfies the State of Missouri government requirement.	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 0	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance or American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
Behavioral and Social Sciences Select 6 hours from at least two specific disciplines to include HISTORY 1200					
HIS 112*	World History: Topical Approaches* *Satisfies the State of Missouri Government requirement.	3	HISTORY 1200*	Modern Western Civilization* *Satisfies the State of Missouri Government requirement.	3
PHI 201 or PHI 301 or PSC 251* or PSY 101 or ECO 202 or ECO 201 or Foreign Language	Intro to Philosophy or Formal Logic or National Government* or Intro to Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	3	PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government* or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	3
No free electives applied to the degree.		0	Maximum Free Electives		0
Group 2 Major Requirements		37	Group 2 Major Requirements		37
Group 1 Core Requirements		32	Group 1 Core Requirements		30
Total Hours		69	Total Hours*		67
*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

Morehouse College			Semester	Missouri S&T		
ENG 393	Business and Professional Writing	3	ENGLISH 3560	Technical Writing	3	
CHE 111, 111L	Elementary Inorganic Chemistry I and Lab	4	CHEM 1310, 1319	General Chemistry I and Lab	5	
CSC 110 or CSC 160	Computer Programming I or Computer Programming II	3	COMP SCI 1971, 1981	Intro to Programming Method and Lab (C++)	3	
EGR 205	Engineering Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3	
EGR 208	Engineering Dynamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics	2	
EGR 206	Mechanics of Materials	3	CIV ENG 2210	Mechanics of Materials	3	
MTH 341	Probability and Statistics I	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 271 or ENG 272 or ENG 363 or ENG 364 or ENG 250 or HIS 215* or HIS 216* or ART 110 or MUS 111	Survey of English Literature I or Survey of English Literature II or Survey of American Literature I or Survey of American Literature II or World Literature or History of the United States to 1876* or History of the United States Since 1876* or Survey of Visual Arts or Masterpieces of Music *Satisfies the State of Missouri government requirement.	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 0	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance or American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6	
Behavioral and Social Sciences						
Select 6 hours from at least two specific disciplines.						
HIS 111 or HIS 112* or PHI 201 or PHI 301 or PSC 251* or PSY 101 or ECO 202 or ECO 201 or Foreign Language	World History: Topical Approaches or World History: Topical Approaches* or Intro to Philosophy or Formal Logic or National Government* or Intro to Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6	HISTORY 1100 or HISTORY 1200* 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 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		37	Group 2 Major Requirements		37	
Group 1 Core Requirements		32	Group 1 Core Requirements		30	
Total Hours		69			Total Hours* 67	
*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

Morehouse College		Semester	Missouri S&T		
ENG 102 or ENG 393 or COM 253	English Composition or Business and Professional Writing or Public Speaking	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 111, 111L	Elementary Inorganic Chemistry I and Lab	4	CHEM 1310*, 1319	General Chemistry I* and Lab *CHEM 1310 will be substituted for CHEM 1305.	5
CSC 110 or CSC 160	Computer Programming I or Computer Programming II	3	COMP SCI 1971, 1981	Intro to Programming Method and Lab (C++)	3
EGR 205	Engineering Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
EGR 206	Mechanics of Materials	3	CIV ENG 2210	Mechanics of Materials	3
MTH 271 or MTH 341	Intro to Linear Algebra or Probability and Statistics I	3	MATH 3108 or STAT 3115	Linear Algebra I or Engineering Statistics Satisfies the Advanced Math/Statistics elective 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 271 or ENG 272 or ENG 363 or ENG 364 or ENG 250 or HIS 215* or HIS 216* or ART 110 or MUS 111	Survey of English Literature I or Survey of English Literature II or Survey of American Literature I or Survey of American Literature II or World Literature or History of the United States to 1876* or History of the United States Since 1876* or Survey of Visual Arts or Masterpieces of Music. *Satisfies the State of Missouri government requirement.	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 0	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance or American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
Behavioral and Social Sciences Select 6 hours from at least two specific disciplines.					
HIS 111 or HIS 112* or PHI 201 or PHI 301 or PSC 251* or PSY 101 or ECO 202 or ECO 201 or Foreign Language	World History: Topical Approaches or World History: Topical Approaches* or Intro to Philosophy or Formal Logic or National Government* or Intro to Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6	HISTORY 1100 or HISTORY 1200* 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 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		34	Group 2 Major Requirements		35
Group 1 Core Requirements		32	Group 1 Core Requirements		30
Total Hours		66	Total Hours*		65
*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

Morehouse College			Semester	Missouri S&T		
ENG 102 or ENG 393 or COM 253	English Composition or Business and Professional Writing or Public Speaking	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	
MTH 341	Probability and Statistics I	3	STAT 3115	Engineering Statistics	3	
EGR 205	Engineering Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3	
EGR 206	Mechanics of Materials	3	CIV ENG 2210	Mechanics of Materials	3	
CHE 111, 111L	Elementary Inorganic Chemistry I and Lab	4	CHEM 1310, 1319	General Chemistry I and Lab	5	
CHE 112	Elementary Inorganic Chemistry II	3	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) *CHEM 1510 is not a degree requirement, transfers as general elective credit.	3	
CHE 231, 231L or CHE 321 or PHY 254	Elementary Organic Chemistry I (3) and Lab* (1) or Elementary Physical Chemistry (3) or Optics and Modern Physics (3)		CHEM 2210, 2219* or CHEM 3410 or PHYSICS 2305	Organic Chemistry I (3) and Lab* (1) or Chemical Thermodynamics I (3) or Intro to Modern Physics (3) Not specifically required for the degree but will satisfy out-of-department technical elective requirement. *CHEM 2219 is not a Missouri S&T degree requirement, will transfer as general elective credit.	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 271 or ENG 272 or ENG 363 or ENG 364 or ENG 250 or HIS 215* or HIS 216* or ART 110 or MUS 111	Survey of English Literature I or Survey of English Literature II or Survey of American Literature I or Survey of American Literature II or World Literature or History of the United States to 1876* or History of the United States Since 1876* or Survey of Visual Arts or Masterpieces of Music *Satisfies the State of Missouri government requirement.	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 0	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance or American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6	
Behavioral and Social Sciences Select 6 hours from at least two specific disciplines.						
HIS 111 or HIS 112* or PHI 201 or PHI 301 or PSC 251* or PSY 101 or ECO 202 or ECO 201 or Foreign Language	World History: Topical Approaches or World History: Topical Approaches* or Intro to Philosophy or Formal Logic or National Government* or Intro to Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6	HISTORY 1100 or HISTORY 1200* 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 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		41	
Group 1 Core Requirements		32	Group 1 Core Requirements		30	
Total Hours		69			Total Hours*	71
*S&T advisor permission is required to transfer more than 68 credits toward the S&T Metallurgical Engineering degree.						

*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

Morehouse College		Semester	Missouri S&T			
ENG 102 or ENG 393 or COM 253	English Composition or Business and Professional Writing or Public Speaking	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	
MTH 341	Probability and Statistics I	3	STAT 3115	Engineering Statistics	3	
CHE 111, 111L	Elementary Inorganic Chemistry I and Lab	4	CHEM 1310, 1319	General Chemistry I and Lab	5	
EGR 205	Engineering Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3	
EGR 208	Engineering Dynamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics	2	
EGR 206	Mechanics of Materials	3	CIV ENG 2210	Mechanics of Materials	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, 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 271 or ENG 272 or ENG 363 or ENG 364 or ENG 250 or HIS 215* or HIS 216* or ART 110 or MUS 111	Survey of English Literature I or Survey of English Literature II or Survey of American Literature I or Survey of American Literature II or World Literature or History of the United States to 1876* or History of the United States Since 1876* or Survey of Visual Arts or Masterpieces of Music *Satisfies the State of Missouri government requirement.	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 0	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance or American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6	
Behavioral and Social Sciences						
Select 6 hours from at least two specific disciplines.						
HIS 111 or HIS 112* or PHI 201 or PHI 301 or PSC 251* or PSY 101 or ECO 202 or ECO 201 or Foreign Language	World History: Topical Approaches or World History: Topical Approaches* or Intro to Philosophy or Formal Logic or National Government* or Intro to Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6	HISTORY 1100 or HISTORY 1200* 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 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		31	Group 2 Major Requirements		31	
Group 1 Core Requirements		32	Group 1 Core Requirements		30	
Total Hours		63			Total Hours*	61
*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

Morehouse College		Semester	Missouri S&T			
ENG 102 or ENG 393 or COM 253	English Composition or Business and Professional Writing or Public Speaking	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 111, 111L	Elementary Inorganic Chemistry I and Lab	4	CHEM 1310, 1319	General Chemistry I and Lab	5	
CSC 110 or CSC 160	Computer Programming I or Computer Programming II	3	COMP SCI 1971, 1981	Intro to Programming Method and Lab (C++)	3	
MTH 271 or MTH 255	Intro to Linear Algebra or Intro to Set Theory	3	MATH 3108 or MATH 3109	Linear Algebra or Foundations of Mathematics	3	
EGR 205	Engineering Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3	
EGR 206	Mechanics of Materials	3	CIV ENG 2210	Mechanics of Materials	3	
MTH 341	Probability and Statistics I	3	STAT 3115	Engineering Statistics	3	
PHY 254	Optics and Modern Physics	3	PHYSICS 2305 or PHYSICS 2311	Intro to Modern Physics or Modern Physics	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 271 or ENG 272 or ENG 363 or ENG 364 or ENG 250 or HIS 215* or HIS 216* or ART 110 or MUS 111	Survey of English Literature I or Survey of English Literature II or Survey of American Literature I or Survey of American Literature II or World Literature or History of the United States to 1876* or History of the United States Since 1876* or Survey of Visual Arts or Masterpieces of Music *Satisfies the State of Missouri government requirement.	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 0	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance or American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6	
Behavioral and Social Sciences						
Select 6 hours from at least two specific disciplines.						
ECO 202 or ECO 201	Principles of Microeconomics or Principles of Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3	
HIS 111 or HIS 112* or PHI 201 or PHI 301 or PSC 251* or PSY 101 or Foreign Language	World History: Topical Approaches or World History: Topical Approaches* or Intro to Philosophy or Formal Logic or National Government* or Intro to Psychology or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	3	HISTORY 1100 or HISTORY 1200* or PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or Foreign Language	Early Western Civilization or Modern Western Civilization* or Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government* or General Psychology or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	3	
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		40	Group 2 Major Requirements		41	
Group 1 Core Requirements		32	Group 1 Core Requirements		30	
Total Hours		72			Total Hours*	71
*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

Morehouse College			Semester	Missouri S&T	
ENG 102 or ENG 393 or COM 253	English Composition or Business and Professional Writing or Public Speaking	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 111, 111L	Elementary Inorganic Chemistry I and Lab	4	CHEM 1310, 1319	General Chemistry I and Lab	5
EGR 205	Engineering Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
EGR 208	Engineering Dynamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics	2
EGR 206	Mechanics of Materials	3	CIV ENG 2210	Mechanics of Materials	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 271 or ENG 272 or ENG 363 or ENG 364 or ENG 250 or HIS 215* or HIS 216* or ART 110 or MUS 111	Survey of English Literature I or Survey of English Literature II or Survey of American Literature I or Survey of American Literature II or World Literature or History of the United States to 1876* or History of the United States Since 1876* or Survey of Visual Arts or Masterpieces of Music *Satisfies the State of Missouri government requirement.	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 0	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance or American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
Behavioral and Social Sciences					
Select 6 hours from at least two specific disciplines.					
HIS 111 or HIS 112* or PHI 201 or PHI 301 or PSC 251* or PSY 101 or ECO 202 or ECO 201 or Foreign Language	World History: Topical Approaches or World History: Topical Approaches* or Intro to Philosophy or Formal Logic or National Government* or Intro to Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6	HISTORY 1100 or HISTORY 1200* 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 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		31	Group 2 Major Requirements		31
Group 1 Core Requirements		32	Group 1 Core Requirements		30
Total Hours		63			Total Hours*
*S&T advisor permission is required to transfer more than 69 credits toward the S&T Petroleum Engineering degree.					