

Three Rivers College — Missouri S&T

General Engineering Transfer Guide

Effective as of Fall 2017

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

Group 1 - Core Requirements: All Majors Take All Courses

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

| <u>Three Rivers College</u> | | | <u>Semester</u> | <u>Missouri S&T</u> | | |
|-----------------------------|-----------------------------------------------------------------|---|---------------------------|-----------------------------------------------------------------|-----------------------------------|--------------------|
| MATH 171 | Analytic Geometry and Calculus I | 5 | MATH 1214 | Calculus for Engineers I | Grade of C or better is required. | 4 |
| MATH 271 | Analytic Geometry and Calculus II | 5 | MATH 1215 | Calculus for Engineers II | Grade of C or better is required. | 4 |
| MATH 272 | Analytic Geometry and Calculus III | 5 | MATH 2222 | Calculus with Analytic Geometry III | Grade of C or better is required. | 4 |
| PHYS 211 | General Physics I | 5 | PHYSICS 1135 | Engineering Physics I | Grade of C or better is required. | 4 |
| PHYS 211 | General Physics II | 5 | PHYSICS 2135 | Engineering Physics II | Grade of C or better is required. | 4 |
| CHEM 121 | General Chemistry I | 5 | CHEM 1310, 1319 | General Chemistry I and Lab | | 5 |
| ENGL 111 | English Composition I | 3 | ENGLISH 1120 | Exposition and Argumentation | | 3 |
| ECON 212 or ECON 211 | Principles of Microeconomics or Principles of Macroeconomics | 3 | ECON 1100 or ECON 1200 | Principles of Microeconomics or Principles of Macroeconomics | | 3 |
| Total Hours | | | 36 | | | Total Hours |
| | | | | | | 31 |

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

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

Aerospace Engineering
Architectural Engineering
Ceramic Engineering
Chemical Engineering
**Chemical Engineering/Biochemistry
Emphasis**
Civil Engineering
Computer Engineering
Electrical Engineering

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

Engineering Major Requirements are detailed on the following pages.

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

Humanities/Social Science (HSS) Electives: HSS electives may include any history, economics, political science, sociology, psychology, philosophy, fine art, literature, or foreign language. Missouri S&T approved HSS courses are listed at ugs.mst.edu. Your campus may have additional acceptable options. Consult with your advisor or email transfer@mst.edu with questions.

Aerospace Engineering Group 2 Major Requirements

| <u>Three Rivers College</u> | | <u>Semester</u> | <u>Missouri S&T</u> | |
|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HIST 111 or HIST 112 or HIST 122 or GOVT 121 ENGL 112 or SCOM 110 | American History to 1877 or American History Since 1877 or World Civ since Renaissance or National & State Government English Composition II or Public Speaking | 3 3 | HISTORY 1300 or HISTORY 1310 or HISTORY 1200 or POL SCI 1200 ENGLISH 1160 or SPMS 1185 | American History to 1877 or American History since 1877 or Modern Western Civilization or American Government Writing and Research or Principles of Speech Literature Elective Ethics Elective Maximum Free Electives |
| | | | | 3 3 3 0 |
| <i>See your advisor for course options.</i> | | | | |
| <i>See your advisor for course options.</i> | | | | |
| <i>No free electives applied to the degree.</i> | | | | |
| | | 6 | | |
| Group 2 Major Requirements | | 36 | Group 2 Major Requirements | |
| Group 1 Core Requirements | | | Group 1 Core Requirements | |
| Total Hours | | 42 | Total Hours* | |
| | | | 43 | |

*S&T advisor permission is required to transfer more than 66 credits toward the S&T Aerospace Engineering degree.

Architectural Engineering Group 2 Major Requirements

| <u>Three Rivers College</u> | | <u>Semester</u> | <u>Missouri S&T</u> | |
|-------------------------------------------------|-----------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HIST 122 or HIST 111 or HIST 112 | World Civ since Renaissance or to 1877 or American History Since 1877 | 3 | HISTORY 1200* (or HISTORY 1300 or HISTORY 1310) | Modern Western Civilization* (or American History to 1877 or American History since 1877) |
| | | | | 3 |
| CIVL 116, 216 | Surveying I, Surveying II | 6 | CIV ENG 2401 ENGLISH 1160 or SPMS 1185 or HSS Elective | Fundamentals of Surveying Writing and Research or Public Speaking or Humanities/Social Science Elective: history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language |
| | | | | 3 |
| ENGL 112 or SCOM 110 | English Composition II or Public Speaking | 3 | | |
| | | | | 3 |
| BIOL 190 | <i>Biology for Majors</i> | 5 | BIO SCI 1213 or | Principles of Biology or (or other chemistry, geology, biology, physics, or astronomy course that is not otherwise required for the degree) Applies to the degree as a basic science elective |
| | | | | 3 |
| <i>No free electives applied to the degree.</i> | | | | |
| | | 17 | Maximum Free Electives | |
| Group 2 Major Requirements | | 36 | Group 2 Major Requirements | |
| Group 1 Core Requirements | | | Group 1 Core Requirements | |
| Total Hours | | 53 | Total Hours* | |
| | | | 43 | |

*S&T advisor permission is required to transfer more than 66 credits toward the S&T Architectural Engineering degree.

Ceramic Engineering Group 2 Major Requirements

| <u>Three Rivers College</u> | | <u>Semester</u> | <u>Missouri S&T</u> | |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HIST 111 or HIST 112 or HIST 122 or GOVT 121 | American History to 1877 or American History Since 1877 or World Civ since Renaissance or National & State Government | 3 | HISTORY 1300 or HISTORY 1310 or HISTORY 1200 or POL SCI 1200 | American History to 1877 or American History since 1877 or Modern Western Civilization or American Government |
| CHEM 122 | General Chemistry II | 5 | CHEM 1320 | General Chemistry II |
| ENGL 112 or SCOM 110 | English Composition II or Public Speaking | 3 | ENGLISH 1160 or SPMS 1185 or HSS Elective | Writing and Research or Public Speaking or Humanities/Social Science Elective: history, economics, political science, sociology, psychology, philosophy, fine Humanities/Social Science Elective |
| <i>See your advisor for course options.</i> | | | | Humanities/Social Science Elective |
| <i>No free electives applied to the degree.</i> | | | | Maximum Free Electives |
| Group 2 Major Requirements | | 11 | Group 2 Major Requirements | |
| Group 1 Core Requirements | | 36 | Group 1 Core Requirements | |
| Total Hours | | 47 | Total Hours* | |
| | | | 43 | |

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

Chemical Engineering Group 2 Major Requirements

| <u>Three Rivers College</u> | | <u>Semester</u> | <u>Missouri S&T</u> | |
|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| ENGL 112 HIST 111 or HIST 112 or HIST 122 or GOVT 121 | English Composition II American History to 1877 or American History Since 1877 or World Civ since Renaissance or National & State Government | 3 | ENGLISH 1160 HISTORY 1300 or HISTORY 1310 or HISTORY 1200 or POL SCI 1200 | Writing and Research American History to 1877 or American History since 1877 or Modern Western Civilization or American Government |
| CHEM 122 | General Chemistry II | 5 | CHEM 1320 | General Chemistry II |
| <i>See your advisor for course options.</i> | | | | Humanities/Social Science Elective |
| <i>See your advisor for course options.</i> | | | | Humanities/Social Science Elective |
| <i>No free electives applied to the degree.</i> | | | | Maximum Free Electives |
| Group 2 Major Requirements | | 11 | Group 2 Major Requirements | |
| Group 1 Core Requirements | | 36 | Group 1 Core Requirements | |
| Total Hours | | 47 | Total Hours* | |
| | | | 48 | |

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

Chemical Engineering - Biochemical Engineering Emphasis Group 2 Major Requirements

| <u>Three Rivers College</u> | | <u>Semester</u> | <u>Missouri S&T</u> | |
|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| ENGL 112 HIST 111 or HIST 112 or HIST 122 or GOVT 121 | English Composition II American History to 1877 or American History Since 1877 or World Civ since Renaissance or National & State Government | 3 | ENGLISH 1160 HISTORY 1300 or HISTORY 1310 or HISTORY 1200 or POL SCI 1200 | Writing and Research American History to 1877 or American History since 1877 or Modern Western Civilization or American Government |
| CHEM 122 | General Chemistry II | 5 | CHEM 1320 | General Chemistry II |
| <i>See your advisor for course options.</i> | | | | Humanities/Social Science Elective |
| <i>See your advisor for course options.</i> | | | | Humanities/Social Science Elective |
| <i>No free electives applied to the degree.</i> | | | | Maximum Free Electives |
| Group 2 Major Requirements | | 11 | Group 2 Major Requirements | |
| Group 1 Core Requirements | | 36 | Group 1 Core Requirements | |
| Total Hours | | 47 | Total Hours* | |
| | | | 48 | |

*S&T advisor permission is required to transfer more than 71 credits toward the S&T Chemical/Biochemical Engineering degree.

Civil Engineering Group 2 Major Requirements

| <u>Three Rivers College</u> | | <u>Semester</u> | <u>Missouri S&T</u> | | |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|----|
| ENGL 112 or SCOM 110 | English Composition II or Public Speaking | 3 | ENGLISH 1160 or SPMS 1185 | Writing and Research or Public Speaking | 3 |
| HIS1 111 or HIST 112 or HIST 122 or GOVT 121 | American History to 1877 or American History Since 1877 or World Civ since Renaissance or National & State Government | 3 | HISTORY 1300 or HISTORY 1310 or HISTORY 1200 or POL SCI 1200 | American History to 1877 or American History since 1877 or Modern Western Civilization or American Government | 3 |
| CIVL 116, 216 | Surveying I, Surveying II | 6 | CIV ENG 2401 | Fundamentals of Surveying | 3 |
| <i>See your advisor for course options.</i> | | | | Humanities/Social Science Elective | 3 |
| <i>No free electives applied to the degree.</i> | | | | Maximum Free Electives | 0 |
| Group 2 Major Requirements | | 12 | Group 2 Major Requirements | | 12 |
| Group 1 Core Requirements | | 36 | Group 1 Core Requirements | | 31 |
| Total Hours | | 48 | Total Hours* | | 43 |

*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

| <u>Three Rivers College</u> | | <u>Semester</u> | <u>Missouri S&T</u> | | |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|----|
| SCOM 110 | Public Speaking | 3 | SPMS 1185 | Public Speaking | 3 |
| ENGL 112 | English Composition II | 3 | ENGLISH 1160 | Writing and Research | 3 |
| HIS1 111 or HIST 112 or HIST 122 or GOVT 121 | American History to 1877 or American History Since 1877 or World Civ since Renaissance or National & State Government | 3 | HISTORY 1300 or HISTORY 1310 or HISTORY 1200 or POL SCI 1200 | American History to 1877 or American History since 1877 or Modern Western Civilization or American Government | 3 |
| <i>See your advisor for course options.</i> | | | | Humanities/Social Science Elective | 3 |
| <i>See your advisor for course options.</i> | | | | Maximum Free Electives | 3 |
| Group 2 Major Requirements | | 9 | Group 2 Major Requirements | | 15 |
| Group 1 Core Requirements | | 36 | Group 1 Core Requirements | | 31 |
| Total Hours | | 45 | Total Hours* | | 46 |

*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

| <u>Three Rivers College</u> | | <u>Semester</u> | <u>Missouri S&T</u> | | |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|----|
| SCOM 110 | Public Speaking | 3 | SPMS 1185 | Public Speaking | 3 |
| ENGL 112 | English Composition II | 3 | ENGLISH 1160 | Writing and Research | 3 |
| HIS1 111 or HIST 112 or HIST 122 or GOVT 121 | American History to 1877 or American History Since 1877 or World Civ since Renaissance or National & State Government | 3 | HISTORY 1300 or HISTORY 1310 or HISTORY 1200 or POL SCI 1200 | American History to 1877 or American History since 1877 or Modern Western Civilization or American Government | 3 |
| <i>See your advisor for course options.</i> | | | | Humanities/Social Science Elective | 3 |
| <i>See your advisor for course options.</i> | | | | Maximum Free Electives | 3 |
| Group 2 Major Requirements | | 9 | Group 2 Major Requirements | | 15 |
| Group 1 Core Requirements | | 36 | Group 1 Core Requirements | | 31 |
| Total Hours | | 45 | Total Hours* | | 46 |

*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

| <u>Three Rivers College</u> | | <u>Semester</u> | <u>Missouri S&T</u> | | |
|---------------------------------------------|--------------------------------|-----------------|------------------------------------|--------------------------------|----|
| PSYC 111 | General Psychology | 3 | PSYCH 1101 | General Psychology | 3 |
| HIS1 111 or | American History to 1877 or | | HISTORY 1300 or | American History to 1877 or | |
| HIST 112 or | American History Since 1877 or | 3 | HISTORY 1310 or | American History since 1877 or | 3 |
| HIST 122 or | World Civ since Renaissance | | HISTORY 1200 or | Modern Western Civilization or | |
| GOVT 121 | National & State Government | | POL SCI 1200 | American Government | |
| ENGL 112 or | English Composition II or | 3 | ENGLISH 1160 or | Writing and Research or | 3 |
| SCOM 110 | Public Speaking | | SPMS 1185 | Principles of Speech | |
| <i>See your advisor for course options.</i> | | | Humanities/Social Science Elective | | 3 |
| <i>See your advisor for course options.</i> | | | Maximum Free Electives | | 3 |
| Group 2 Major Requirements | | 9 | Group 2 Major Requirements | | 15 |
| Group 1 Core Requirements | | 36 | Group 1 Core Requirements | | 31 |
| Total Hours | | 45 | Total Hours* | | 46 |

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

Environmental Engineering Group 2 Major Requirements

| <u>Three Rivers College</u> | | <u>Semester</u> | <u>Missouri S&T</u> | | |
|-------------------------------------------------|--------------------------------|-----------------|------------------------------------|--------------------------------------------|----|
| ENGL 112 or | English Composition II or | 3 | ENGLISH 1160 or | Writing and Research or | 3 |
| SCOM 110 | Public Speaking | | SPMS 1185 | Principles of Speech | |
| HIST 111 or | American History to 1877 or | | HISTORY 1300 or | American History to 1877 (preferred) or | |
| HIST 112 or | American History Since 1877 or | 3 | HISTORY 1310 or | American History since 1877 (preferred) or | 3 |
| HIST 122 | World Civ since Renaissance | | HISTORY 1200 | Modern Western Civilization | |
| CHEM 122 | General Chemistry II | 5 | CHEM 1320 | General Chemistry II | 3 |
| BIOL 101 | General Biology | 5 | BIO SCI 1113 | General Biology | 4 |
| <i>See your advisor for course options.</i> | | | Humanities/Social Science Elective | | 3 |
| <i>No free electives applied to the degree.</i> | | | Maximum Free Electives | | 0 |
| Group 2 Major Requirements | | 16 | Group 2 Major Requirements | | 16 |
| Group 1 Core Requirements | | 36 | Group 1 Core Requirements | | 31 |
| Total Hours | | 52 | Total Hours* | | 47 |

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

Geological Engineering Group 2 Major Requirements

| <u>Three Rivers College</u> | | <u>Semester</u> | <u>Missouri S&T</u> | | |
|-------------------------------------------------|--------------------------------|-----------------|------------------------------------|--------------------------------|----|
| ENGL 112 or | English Composition II or | 3 | ENGLISH 1160 or | Writing and Research or | 3 |
| SCOM 110 | Public Speaking | | SPMS 1185 | Principles of Speech | |
| HIS1 111 or | American History to 1877 or | | HISTORY 1300 or | American History to 1877 or | |
| HIST 112 or | American History Since 1877 or | 3 | HISTORY 1310 or | American History since 1877 or | 3 |
| HIST 122 or | World Civ since Renaissance | | HISTORY 1200 or | Modern Western Civilization or | |
| GOVT 121 | National & State Government | | POL SCI 1200 | American Government | |
| BIOL 101 or | General Biology or | 5 | BIO SCI 1113 or | General Biology or | |
| CHEM 122 | General Chemistry II | | CHEM 1320 | General Chemistry II | |
| <i>See your advisor for course options.</i> | | | Humanities/Social Science Elective | | 3 |
| <i>See your advisor for course options.</i> | | | Humanities/Social Science Elective | | 3 |
| <i>No free electives applied to the degree.</i> | | | Maximum Free Electives | | 0 |
| Group 2 Major Requirements | | 11 | Group 2 Major Requirements | | 12 |
| Group 1 Core Requirements | | 36 | Group 1 Core Requirements | | 31 |
| Total Hours | | 47 | Total Hours* | | 43 |

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

Mechanical Engineering Group 2 Major Requirements

| <u>Three Rivers College</u> | | <u>Semester</u> | <u>Missouri S&T</u> | |
|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HISI 111 or HIST 112 or HIST 122 or GOVT 121 ENGL 112 or SCOM 110 | American History to 1877 or American History Since 1877 or World Civ since Renaissance or National & State Government English Composition II or Public Speaking | 3 3 | HISTORY 1300 or HISTORY 1310 or HISTORY 1200 or POL SCI 1200 ENGLISH 1160 or SPMS 1185 | American History to 1877 or American History since 1877 or Modern Western Civilization or American Government Writing and Research or Principles of Speech Literature Elective Humanities/Social Science Elective Maximum Free Electives |
| <i>See your advisor for course options.</i> | | | | 3 3 3 3 3 3 3 3 |
| <i>No free electives applied to the degree.</i> | | | | 0 |
| | Group 2 Major Requirements | 0 | | 6 |
| | Group 1 Core Requirements | 36 | | 31 |
| | Total Hours | 36 | | Total Hours* 37 |

*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

| <u>Three Rivers College</u> | | <u>Semester</u> | <u>Missouri S&T</u> | |
|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ENGL 112 or SCOM 110 HISI 111 or HIST 112 or HIST 122 or GOVT 121 CHEM 122 | English Composition II or Public Speaking American History to 1877 or American History Since 1877 or World Civ since Renaissance or National & State Government General Chemistry II | 3 3 5 | ENGLISH 1160 or SPMS 1185 HISTORY 1300 or HISTORY 1310 or HISTORY 1200 or POL SCI 1200 CHEM 1320 | Writing and Research or Principles of Speech American History to 1877 or American History since 1877 or Modern Western Civilization or American Government General Chemistry II Humanities/Social Science Elective Humanities/Social Science Elective Maximum Free Electives |
| <i>See your advisor for course options.</i> | | | | 3 3 3 3 3 3 3 3 |
| <i>See your advisor for course options.</i> | | | | 3 |
| <i>See your advisor for course options.</i> | | | | 5 |
| | Group 2 Major Requirements | 11 | | 20 |
| | Group 1 Core Requirements | 36 | | 31 |
| | Total Hours | 47 | | Total Hours* 51 |

*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

| <u>Three Rivers College</u> | | <u>Semester</u> | <u>Missouri S&T</u> | | |
|-------------------------------------------------|--------------------------------|-----------------|------------------------------------|--------------------------------|----|
| ENGL 112 | English Composition II | 3 | ENGLISH 1160 | Writing and Research | 3 |
| HIS1 111 or | American History to 1877 or | | HISTORY 1300 or | American History to 1877 or | |
| HIST 112 or | American History Since 1877 or | | HISTORY 1310 or | American History since 1877 or | |
| HIST 122 or | World Civ since Renaissance or | 3 | HISTORY 1200 or | Modern Western Civilization or | 3 |
| GOVT 121 | National & State Government | | POL SCI 1200 | American Government | |
| <i>See your advisor for course options.</i> | | | Humanities/Social Science Elective | | 3 |
| <i>See your advisor for course options.</i> | | | Humanities/Social Science Elective | | 3 |
| <i>No free electives applied to the degree.</i> | | | Maximum Free Electives | | 0 |
| Group 2 Major Requirements | | 6 | Group 2 Major Requirements | | 12 |
| Group 1 Core Requirements | | 36 | Group 1 Core Requirements | | 31 |
| Total Hours | | 42 | Total Hours* | | 43 |

*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

| <u>Three Rivers College</u> | | <u>Semester</u> | <u>Missouri S&T</u> | | |
|---------------------------------------------|--------------------------------|-----------------|------------------------------------|--------------------------------|----|
| ENGL 112 | English Composition II | 3 | ENGLISH 1160 | Writing and Research | 3 |
| HIS1 111 or | American History to 1877 or | | HISTORY 1300 or | American History to 1877 or | |
| HIST 112 or | American History Since 1877 or | | HISTORY 1310 or | American History since 1877 or | |
| HIST 122 or | World Civ since Renaissance or | 3 | HISTORY 1200 or | Modern Western Civilization or | 3 |
| GOVT 121 | National & State Government | | POL SCI 1200 | American Government | |
| <i>See your advisor for course options.</i> | | | Humanities/Social Science Elective | | 3 |
| <i>See your advisor for course options.</i> | | | Humanities/Social Science Elective | | 3 |
| <i>See your advisor for course options.</i> | | | Maximum Free Electives | | 6 |
| Group 2 Major Requirements | | 6 | Group 2 Major Requirements | | 18 |
| Group 1 Core Requirements | | 36 | Group 1 Core Requirements | | 31 |
| Total Hours | | 42 | Total Hours* | | 49 |

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

Petroleum Engineering Group 2 Major Requirements

| <u>Three Rivers College</u> | | <u>Semester</u> | <u>Missouri S&T</u> | | |
|-------------------------------------------------|--------------------------------|-----------------|------------------------------------|--------------------------------|----|
| ENGL 112 | English Composition II | 3 | ENGLISH 1160 | Writing and Research | 3 |
| HIS1 111 or | American History to 1877 or | | HISTORY 1300 or | American History to 1877 or | |
| HIST 112 or | American History Since 1877 or | | HISTORY 1310 or | American History since 1877 or | |
| HIST 122 or | World Civ since Renaissance or | 3 | HISTORY 1200 or | Modern Western Civilization or | 3 |
| GOVT 121 | National & State Government | | POL SCI 1200 | American Government | |
| <i>See your advisor for course options.</i> | | | Humanities/Social Science Elective | | 3 |
| <i>See your advisor for course options.</i> | | | Humanities/Social Science Elective | | 3 |
| <i>No free electives applied to the degree.</i> | | | Maximum Free Electives | | 0 |
| Group 2 Major Requirements | | 0 | Group 2 Major Requirements | | 6 |
| Group 1 Core Requirements | | 36 | Group 1 Core Requirements | | 31 |
| Total Hours | | 36 | Total Hours* | | 37 |

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