Southeastern Illinois College — Missouri S&T

General Engineering Transfer Guide

Effective as of Fall 2023

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.

| | Southeastern Illinois College | | | Semester | | <u>Missouri S&T</u> | | |
|-------------|------------------------------------|-------------|----|----------|-----------------|--|-------------|----|
| MATH 162 | Calculus & Analytical Geometry I | | 5 | | MATH 1214 | Calculus I Grade of C or better is required. | | 4 |
| MATH 221 | Calculus & Analytical Geometry II | | 5 | | MATH 1215 | Calculus II Grade of C or better is required. | | 4 |
| MATH 222 | Calculus & Analytical Geometry III | | 5 | | MATH 2222 | Calculus III Grade of C or better is required. | | 4 |
| MATH 225 | Differential Equations | | 3 | | MATH 3304 | Elementary Differential Equations | | 3 |
| PHYS 221 | General Physics I | | 5 | | PHYSICS 1135 | Engineering Physics I Grade of C or better is required. | | 4 |
| PHYS 222 | 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 |
| ENG 121 | Rhetoric and Composition I | | 3 | | ENGLISH 1120 | Exposition and Argumentation | | 3 |
| ECON 122 or | Principles of Microeconomics or | | 2 | | ECON 1100 or | Principles of Microeconomics or | | 2 |
| ECON 121 | Principles of Macroeconomics | | 3 | | ECON 1200 | Principles of Macroeconomics | | 3 |
| | | Total Hours | 39 | | | | Total Hours | 34 |

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 | Engineering Management |
|--|---------------------------|
| Architectural Engineering | Environmental Engineering |
| Ceramic Engineering | Geological Engineering |
| Chemical Engineering | Mechanical Engineering |
| Chemical Engineering/Biochemistry Emphasis | Metallurgical Engineering |
| Civil Engineering | Mining Engineering |
| Computer Engineering | Nuclear Engineering |
| Electrical Engineering | Petroleum Engineering |
| | |

Engineering Major Requirements are detailed on the following pages.

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

Humanities/Social Science (HSS) Electives: HSS electives may include any art, English and technical communication, etymology, foreign language, music, philosophy, speech and media studies, or theatre. Your campus may have additional acceptable options. Consult with your advisor or email transfer@mst.edu with questions. See Missouri S&T online catalog at https://catalog.mst.edu/undergraduate/degreeprogramsandcourses/ for more information.

Aerospace Engineering Group 2 Major Requirements

| | Southeastern Illinois College | | Semester | | <u>Missouri S&T</u> | |
|---|--|--------|----------|---|--|----|
| HIST 122 or HIST 241 or HIST 242 or GOVT 121 | History of Western Civilization or American History I or American History II or American Government | 3 | | HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200 | Modern Western Civilization or American History to 1877 or American History since 1877 or American Government | 3 |
| ENG 122 or COM 121 | Rhetoric and Composition II or Principles of Speaking | 3 | | ENGLISH 1160 or SPMS 1185 | Writing and Research or Principles of Speech | 3 |
| PHYS 241 | Statics | 3 | | CIV ENG 2200 | Engineering Mechanics - Statics | 3 |
| | Literature Elective | 3 | | | Literature Elective | 3 |
| | Ethics Elective | 3 | | | Ethics Elective Engineering, business, bio, social or other ethics approved by advisor. | 3 |
| | No free electives applied to the degree. | 0 | | | Maximum Free Electives | 0 |
| | Group 2 Major Requirements | 15 | | | Group 2 Major Requirements | 15 |
| | Group 1 Core Requirements | 39 | | | Group 1 Core Requirements | 34 |
| | Total Hou | urs 54 | | | Total Hours* *S&T advisor permission is required to transfer more than 68 credits toward the S&T Aerospace Engineering degree. | 49 |

| | Architectural Engineering Group 2 Major Requirements | | | | | | | |
|--|---|----------|----------|---|--|----------|--|--|
| | Southeastern Illinois College | <u>s</u> | Semester | | Missouri S&T | | | |
| HIST 122 or HIST 241 or HIST 242 | History of Western Civilization or American History I or American History II | 3 | | HISTORY 1200* (or HISTORY 1300 or HISTORY 1310) | Modern Western Civilization* (or American History to 1877 or American History since 1877) *HISTORY 1200 is preferred; 1300 or 1310 will also be accepted. | 3 | | |
| PHYS 241 | Statics | 3 | | CIV ENG 2200 | Engineering Mechanics - Statics | 3 | | |
| PHYS 242 | Dyanamics | 3 | | MECH ENG 2350 | Engineering Mechanics - Dynamics | 2 | | |
| HSS Elective | Humanities/Social Science Elective: history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language | 3 | | HSS Elective | Humanities/Social Science Elective: history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language | 3 | | |
| | No free electives applied to the degree. | 0 | | | Maximum Free Electives | 0 | | |
| | Group 2 Major Requirements | 12 | | | Group 2 Major Requirements | 11 | | |
| | Group 1 Core Requirements Total Hours | 39 51 | | | Group 1 Core Requirements | 34 45 | | |
| | | 51 | | | *S&T advisor permission is required to transfer more than 69 credits toward the S&T Architectural Engineering degree. | 40 | | |

| | Ceramic Engineering Group 2 Major Requirements | | | | | | | | |
|---|--|----|----------|---|--|----|--|--|--|
| | Southeastern Illinois College | | Semester | | <u>Missouri S&T</u> | | | | |
| HIST 122 or HIST 241 or HIST 242 or GOVT 121 PHYS 241 | History of Western Civilization or American History I or American History II or American Government Statics | 3 | | HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200 CIV ENG 2200 | Modern Western Civilization or American History to 1877 or American History since 1877 or American Government Engineering Mechanics - Statics | 3 | | | |
| CHEM 122 | General Chemistry and Qualitative Analysis | 5 | | CHEM 1320 | General Chemistry II | 3 | | | |
| ENG 122 or COM 121 or HSS Elective | Rhetoric and Composition II or Principles of Speaking or Humanities/Social Science Elective: history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language | 3 | | ENGLISH 1160 or SPMS 1185 or HSS Elective | Writing and Research or Principles of Speech or Humanities/Social Science Elective: history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language | 3 | | | |
| | Humanities/Social Science Elective | 3 | | | Humanities/Social Science Elective | 3 | | | |
| | No free electives applied to the degree. | 0 | | | Maximum Free Electives | 0 | | | |
| | Group 2 Major Requirements | 17 | | | Group 2 Major Requirements | 15 | | | |
| | Group 1 Core Requirements | 39 | | | Group 1 Core Requirements | 34 | | | |
| | Total Hours | 56 | | | Total Hours* *S&T advisor permission is required to transfer more than 68 credits toward the S&T Ceramic Engineering degree. | 49 | | | |

| | Chemical Engineering Group 2 Major Requirements | | | | | | | | |
|---|--|--------|----------|---|---|----|--|--|--|
| | Southeastern Illinois College | | Semester | | Missouri S&T | | | | |
| COM 121 | Principles of Speaking | 3 | | SPMS 1185 | Public Speaking | 3 | | | |
| HIST 122 or HIST 241 or HIST 242 or GOVT 121 | History of Western Civilization or American History I or American History II or American Government | 3 | | HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200 | Modern Western Civilization or American History to 1877 or American History since 1877 or American Government | 3 | | | |
| CHEM 122 | General Chemistry and Qualitative Analysis | 5 | | CHEM 1320 | General Chemistry II | 3 | | | |
| | Humanities/Social Science Elective | 3 | | | Humanities/Social Science Elective | 3 | | | |
| | No free electives applied to the degree. | 0 | | | Maximum Free Electives | 0 | | | |
| | Group 2 Major Requirements | 14 | | | Group 2 Major Requirements | 12 | | | |
| | Group 1 Core Requirements | 39 | | | Group 1 Core Requirements | 34 | | | |
| | Total Hou | urs 53 | | | Total Hours* *S&T advisor permission is required to transfer more than 68 credits toward the S&T Chemical Engineering degree. | 46 | | | |

| Chemical Engineering - Biochemical Engineering Emphasis Group 2 Major Requirements | | | | | | | |
|---|--|----|----------|---|---|----|--|
| | Southeastern Illinois College | | Semester | | Missouri S&T | | |
| COM 121 | Principles of Speaking | 3 | | SPMS 1185 | Public Speaking | 3 | |
| HIST 122 or HIST 241 or HIST 242 or GOVT 121 | History of Western Civilization or American History I or American History II or American Government | 3 | | HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200 | Modern Western Civilization or American History to 1877 or American History since 1877 or American Government | 3 | |
| CHEM 122 | General Chemistry and Qualitative Analysis | 5 | | CHEM 1320 | General Chemistry II | 3 | |
| | Humanities/Social Science Elective | 3 | | | Humanities/Social Science Elective | 3 | |
| | No free electives applied to the degree. | 0 | | | Maximum Free Electives | 0 | |
| | Group 2 Major Requirements | 14 | | | Group 2 Major Requirements | 12 | |
| | Group 1 Core Requirements | 39 | | | Group 1 Core Requirements | 34 | |
| | Total Hours | 53 | | | Total Hours* *S&T advisor permission is required to transfer more than 70 credits toward the S&T Chemical/Biochemical Engineering degree. | 46 | |

| | Civil Engineering Group 2 Major Requirements | | | | | | | |
|---|--|---------------|----------|---|--|---------------|--|--|
| | Southeastern Illinois College | | Semester | | <u>Missouri S&T</u> | | | |
| ENG 122 or COM 121 | Rhetoric and Composition II or Principles of Speaking | 3 | | ENGLISH 1160 or SPMS 1185 | Writing and Research or Principles of Speech | 3 | | |
| HIST 122 or HIST 241 or HIST 242 or GOVT 121 | History of Western Civilization or American History I or American History II or American Government | 3 | | HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200 | Modern Western Civilization or American History to 1877 or American History since 1877 or American Government | 3 | | |
| PHYS 241 | Statics | 3 | | CIV ENG 2200 | Engineering Mechanics - Statics | 3 | | |
| PHYS 242 | Dyanamics Humanities/Social Science Elective | 3 3 | | MECH ENG 2350 | Engineering Mechanics - Dynamics Humanities/Social Science Elective | 2 3 | | |
| | No free electives applied to the degree. Group 2 Major Requirements Group 1 Core Requirements | 0 15 39 | | | Maximum Free Electives Group 2 Major Requirements Group 1 Core Requirements | 0 14 34 | | |
| | Total Hou | rs 54 | | | Total Hours* *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

| | | | J | | | |
|---|--|----------------|----------|---|---|----|
| | Southeastern Illinois College | | Semeste | <u>r</u> | Missouri S&T | |
| COM 121 | Principles of Speaking | 3 | | SPMS 1185 | Public Speaking | 3 |
| ENG 122 | Rhetoric and Composition II | 3 | | ENGLISH 1160 | Writing and Research | 3 |
| HIST 122 or HIST 241 or HIST 242 or GOVT 121 | History of Western Civilization or American History I or American History II or American Government | 3 | | HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200 | Modern Western Civilization or American History to 1877 or American History since 1877 or American Government | 3 |
| PHYS 241 or PHYS 242 | Statics or Dynamics | 3 | | CIV ENG 2200 or MECH ENG 2350 | Engineering Mechanics-Statics (3) or Engineering Mechanics-Dynamics (2) Satisfies a required engineering/science elective. | 3 |
| | Humanities/Social Science Elective | 3 | | | Humanities/Social Science Elective | 3 |
| | Maximum Free Electives | 3 | | | Maximum Free Electives | 3 |
| | Group 2 Major Requirements | 18 | | | Group 2 Major Requirements | 18 |
| | Group 1 Core Requirements | 39 | | | Group 1 Core Requirements | 34 |
| | | Total Hours 57 | | | Total Hours* *S&T advisor permission is required to transfer more than 68 credits toward the S&T Computer Engineering degree. | 52 |

| | Electrical E | nginee | ring | g Gro | up 2 Major | Requirements | |
|---|--|-------------|------|----------|---|---|----|
| | Southeastern Illinois College | | 5 | Semester | | Missouri S&T | |
| COM 121 | Principles of Speaking | | 3 | | SPMS 1185 | Public Speaking | 3 |
| ENG 122 | Rhetoric and Composition II | | 3 | | ENGLISH 1160 | Writing and Research | 3 |
| HIST 122 or HIST 241 or HIST 242 or GOVT 121 | History of Western Civilization or American History I or American History II or American Government | | 3 | | HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200 | Modern Western Civilization or American History to 1877 or American History since 1877 or American Government | 3 |
| PHYS 241 and PHYS 242 | Statics and Dynamics | | 6 | | CIV ENG 2200 and MECH ENG 2350 | Engineering Mechanics-Statics (3) and Engineering Mechanics-Dynamics (2) Satisfies a required engineering/science elective. | 3 |
| | Humanities/Social Science Elective | | 3 | | | Humanities/Social Science Elective | 3 |
| | Maximum Free Electives | | 3 | | | Maximum Free Electives | 3 |
| | Group 2 Major Requirements | | 21 | | | Group 2 Major Requirements | 18 |
| | Group 1 Core Requirements | | 39 | | | Group 1 Core Requirements | 34 |
| | | Total Hours | 60 | | | Total Hours* *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

| | 0 0 | U | | | | |
|-------------|------------------------------------|----------------|----------|-----------------|---|-----|
| | Southeastern Illinois College | | Semester | r | <u>Missouri S&T</u> | |
| PSYC 121 | Intro to Psychology | 3 | | PSYCH 1101 | General Psychology | 3 |
| HIST 122 or | History of Western Civilization or | | | HISTORY 1200 or | Modern Western Civilization or | |
| HIST 241 or | American History I or | 2 | | HISTORY 1300 or | American History to 1877 or | 2 |
| HIST 242 or | American History II or | 5 | | HISTORY 1310 or | American History since 1877 or | 3 |
| GOVT 121 | American Government | | | POL SCI 1200 | American Government | |
| COM 121 | Principles of Speaking | 3 | | SPMS 1185 | Public Speaking | 3 |
| ENG 122 | Rhetoric and Composition II | 3 | | ENGLISH 1160 | Writing and Research | 3 |
| PHYS 241 | Statics | 3 | | CIV ENG 2200 | Engineering Mechanics - Statics | 3 |
| PHYS 242 | Dyanamics | 3 | | MECH ENG 2350 | Engineering Mechanics - Dynamics | 2 |
| | Humanities/Social Science Elective | 3 | | | Humanities/Social Science Elective | 3 |
| | Maximum Free Electives | 3 | | | Maximum Free Electives | 3 |
| | Group 2 Major Requirements | 24 | | | Group 2 Major Requirements | 23 |
| | Group 1 Core Requirements | 39 | | | Group 1 Core Requirements | 34 |
| | | Total Hours 63 | | | Total Hour | |
| | | | | | *S&T advisor permission is required to transfer more than 68 credits toward the S | 5&T |
| | | | | | Engineering Management degree. | |

| | Environmental Engi | nee | ring G | oroup 2 Maj | or Requirements | |
|-----------------------|--|-----|----------|------------------------------|--|----|
| | Southeastern Illinois College | | Semester | | <u>Missouri S&T</u> | |
| ENG 122 or COM 121 | Rhetoric and Composition II or Principles of Speaking | 3 | | ENGLISH 1160 or SPMS 1185 | Writing and Research or Principles of Speech | 3 |
| HIST 122 or | History of Western Civilization or | | | HISTORY 1200 or | Modern Western Civilization or | |
| HIST 241 or | American History I or | 3 | | HISTORY 1300 or | American History to 1877 or | 3 |
| HIST 242 | American History II | | | HISTORY 1310 | American History since 1877 | |
| CHEM 122 | General Chemistry and Qualitative Analysis | 5 | | CHEM 1320 | General Chemistry II | 3 |
| BIOL 121 | Intro to Biology | 4 | | BIO SCI 1113 | General Biology | 3 |
| PHYS 241 | Statics | 3 | | CIV ENG 2200 | Engineering Mechanics - Statics | 3 |
| PHYS 242 | Dyanamics | 3 | | MECH ENG 2350 | Engineering Mechanics - Dynamics | 2 |
| | Humanities/Social Science Elective | 3 | | | Humanities/Social Science Elective | 3 |
| | No free electives applied to the degree. | 0 | | | Maximum Free Electives | 0 |
| | Group 2 Major Requirements | 24 | | | Group 2 Major Requirements | 20 |
| | Group 1 Core Requirements | 39 | | | Group 1 Core Requirements | 34 |
| | Total Hours | 63 | | | Total Hours* *S&T advisor permission is required to transfer more than 69 credits toward the S&T Environmental Engineering degree. | 54 |

| | Geological Engine | enn | ig Gro | oup z iviajo | r Requirements | |
|--|--|--------|----------|--|--|----|
| | Southeastern Illinois College | | Semester | | <u>Missouri S&T</u> | |
| HIST 122 or | History of Western Civilization or | | | HISTORY 1200 or | Modern Western Civilization or | |
| HIST 241 or HIST 242 or GOVT 121 | American History I or American History II or American Government | 3 | | HISTORY 1300 or HISTORY 1310 or POL SCI 1200 | American History to 1877 or American History since 1877 or American Government | 3 |
| PHYS 241 | Statics | 3 | | CIV ENG 2200 | Engineering Mechanics-Statics | 3 |
| PHYS 242 | Dyanamics | 3 | | MECH ENG 2350 | Engineering Mechanics-Dynamics | 2 |
| BIOL 121 or CHEM 122 | Intro to Biology or General Chemistry II and Qualitative Analysis | 4 | | BIO SCI 1113 or CHEM 1320 | General Biology or General Chemistry II or any 3-hour course in chemistry, geochemistry, or biology. Satisfies chemistry/geochemistry elective requirement. | 3 |
| | Humanities/Social Science Elective | 3 | | | Humanities/Social Science Elective | 3 |
| | Humanities/Social Science Elective No free electives applied to the degree. | 3 0 | | | Humanities/Social Science Elective Maximum Free Electives | 3 |
| | Group 2 Major Requirements | 19 | | | Group 2 Major Requirements | 17 |
| | Group 1 Core Requirements | 39 | | | Group 1 Core Requirements | 34 |
| | Total Hours | 58 | | | Total Hours' *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 | | | | | | | | |
|---|--|---------|----------|---|--|-------------------------------|----|--|--|
| | Southeastern Illinois College | | Semester | | Missouri S&T | | | | |
| HIST 122 or HIST 241 or HIST 242 or GOVT 121 | History of Western Civilization or American History I or American History II or American Government | 3 | | HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200 | Modern Western Civilization or American History to 1877 or American History since 1877 or American Government | | 3 | | |
| ENG 122 or COM 121 | Rhetoric and Composition II or Principles of Speaking | 3 | | ENGLISH 1160 or SPMS 1185 | Writing and Research or Principles of Speech | | 3 | | |
| PHYS 241 | Statics | 3 | | CIV ENG 2200 | Engineering Mechanics - Statics | | 3 | | |
| | Literature Elective | 3 | | | Literature Elective | | 3 | | |
| | Humanities/Social Science Elective | 3 | | | Humanities/Social Science Elective | | 3 | | |
| | No free electives applied to the degree. | 0 | | | Maximum Free Electives | | 0 | | |
| | Group 2 Major Requirements | 15 | | | Group 2 Major Requirements | | 15 | | |
| | Group 1 Core Requirements | 39 | | | Group 1 Core Requirements | | 34 | | |
| | Total H | ours 54 | | | T *S&T advisor permission is required to transfer more than 68 credits Mechanical Engineering degree. | otal Hours* toward the S&T | 49 | | |

Metallurgical Engineering Group 2 Major Requirements

| | Southeastern Illinois College | | Semester | | <u>Missouri S&T</u> | |
|---|--|-------|----------|---|--|----|
| ENG 122 or COM 121 | Rhetoric and Composition II or Principles of Speaking | 3 | | ENGLISH 1160 or SPMS 1185 | Writing and Research or Principles of Speech | 3 |
| HIST 122 or HIST 241 or HIST 242 or GOVT 121 | History of Western Civilization or American History I or American History II or American Government | 3 | | HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200 | Modern Western Civilization or American History to 1877 or American History since 1877 or American Government | 3 |
| PHYS 241 | Statics | 3 | | CIV ENG 2200 | Engineering Mechanics - Statics | 3 |
| CHEM 122 | General Chemistry and Qualitative Analysis | 5 | | CHEM 1320 | General Chemistry II | 3 |
| | Humanities/Social Science Elective | 3 | | | Humanities/Social Science Elective | 3 |
| | Humanities/Social Science Elective | 3 | | | Humanities/Social Science Elective | 3 |
| | Maximum Free Electives | 5 | | | Maximum Free Electives | 3 |
| | Group 2 Major Requirements | 25 | | | Group 2 Major Requirements | 21 |
| | Group 1 Core Requirements | 39 | | | Group 1 Core Requirements | 34 |
| 1 | Total Hou | rs 64 | | | Total Hours* | 55 |
| | | | | | *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 | | | | | | | | | |
|---|--|------------|----------|---|---|----|--|--|--|--|
| | Southeastern Illinois College | | Semester | | Missouri S&T | | | | | |
| ENG 122 | Rhetoric and Composition II | 3 | | ENGLISH 1160 | Writing and Research | 3 | | | | |
| HIST 122 or HIST 241 or HIST 242 or GOVT 121 | History of Western Civilization or American History I or American History II or American Government | 3 | | HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200 | Modern Western Civilization or American History to 1877 or American History since 1877 or American Government | 3 | | | | |
| PHYS 241 | Statics | 3 | | CIV ENG 2200* | Engineering Mechanics - Statics | 3 | | | | |
| PHYS 242 | Dyanamics | 3 | | MECH ENG 2350 | Engineering Mechanics - Dynamics | 2 | | | | |
| | Humanities/Social Science Elective | 3 | | | Humanities/Social Science Elective | 3 | | | | |
| | Humanities/Social Science Elective | 3 | | | Humanities/Social Science Elective | 3 | | | | |
| | No free electives applied to the degree. | 0 | | | Maximum Free Electives | 0 | | | | |
| | Group 2 Major Requirements | 18 | | | Group 2 Major Requirements | 17 | | | | |
| | Group 1 Core Requirements | 39 | | | Group 1 Core Requirements | 34 | | | | |
| | Tota | l Hours 57 | | | Total Hours* *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 | | | | | | | | | | |
|---|--|-------------|----|---------|---|--|----|--|--|--|--|
| | Southeastern Illinois College | | S | emester | | Missouri S&T | | | | | |
| ENG 122 | Rhetoric and Composition II | | 3 | | ENGLISH 1160 | Writing and Research | 3 | | | | |
| HIST 122 or HIST 241 or HIST 242 or GOVT 121 | History of Western Civilization or American History I or American History II or American Government | | 3 | | HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200 | Modern Western Civilization or American History to 1877 or American History since 1877 or American Government | 3 | | | | |
| PHYS 241 | Statics | | 3 | | CIV ENG 2200 | Engineering Mechanics - Statics | 3 | | | | |
| PHYS 242 | Dyanamics | | 3 | | MECH ENG 2350 | Engineering Mechanics - Dynamics | 2 | | | | |
| | Humanities/Social Science Elective | | 3 | | | Humanities/Social Science Elective | 3 | | | | |
| | Humanities/Social Science Elective | | 3 | | | Humanities/Social Science Elective | 3 | | | | |
| | Maximum Free Electives | | 6 | | | Maximum Free Electives | 6 | | | | |
| | Group 2 Major Requirements | | 24 | | | Group 2 Major Requirements | 23 | | | | |
| | Group 1 Core Requirements | | 39 | | | Group 1 Core Requirements | 34 | | | | |
| | | Total Hours | 63 | | | Total Hours* *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 | | | | | | | | | |
|---|--|----------|----------|---|--|----|--|--|--|--|
| | Southeastern Illinois College | | Semester | | Missouri S&T | | | | | |
| ENG 122 | Rhetoric and Composition II | 3 | | ENGLISH 1160 | Writing and Research | 3 | | | | |
| HIST 122 or HIST 241 or HIST 242 or GOVT 121 | History of Western Civilization or American History I or American History II or American Government | 3 | | HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200 | Modern Western Civilization or American History to 1877 or American History since 1877 or American Government | 3 | | | | |
| PHYS 241 | Statics | 3 | | CIV ENG 2200 | Engineering Mechanics - Statics | 3 | | | | |
| PHYS 242 | Dyanamics | 3 | | MECH ENG 2350 | Engineering Mechanics - Dynamics | 2 | | | | |
| | Humanities/Social Science Elective | 3 | | | Humanities/Social Science Elective | 3 | | | | |
| | Humanities/Social Science Elective | 3 | | | Humanities/Social Science Elective | 3 | | | | |
| | No free electives applied to the degree. | 0 | | | Maximum Free Electives | 0 | | | | |
| | Group 2 Major Requirements | 18 | | | Group 2 Major Requirements | 17 | | | | |
| | Group 1 Core Requirements | 39 | | | Group 1 Core Requirements | 34 | | | | |
| | Total | Hours 57 | | | Total Hours' *S&T advisor permission is required to transfer more than 69 credits toward the S&T Petroleum Engineering degree. | | | | | |