# Clark Atlanta University - Missouri S\&T <br> General Engineering Transfer Guide <br> Effective as of Fall 2020 

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

## Group 1-Core Requirements: All Majors Take All Courses



## 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.

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

[^0] 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.


| Architectural Engineering Group 2 Major Requirements |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Clark Atlanta University |  | Semester | Missouri S\&T |  |
| HIS 211 or HIS 212 | History of the US Before 1865 or History of the United States Since 1865 | 3 | HISTORY 1300 or HISTORY 1310 | American History to 1877 or American History since 1877 | 3 |
| EGR 211 | Engineering Statics | 3 | CIV ENG 2200 | Engineering Mechanics-Statics | 3 |
| EGR 311 | Engineering Dynamics | 3 | MECH ENG 2350 | Engineering Mechanics-Dynamics | 3 |
| MAT 321 | Mathematical Probability and Statistics I | 3 | STAT 3115 | Engineering Statistics (Will be substituted for STAT 3113.) | 3 |
| ENG 106 or STA 101 or HSS Elective | College Composition II or Fundamentals of Speech 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 <br> Public Speaking or <br> 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 | 15 |  | Group 2 Major Requirements | 15 |
|  | Group 1 Core Requirements | 44 |  | Group 1 Core Requirements | 38 |
|  | Total Hours | 59 |  | Total Hours* <br> *S\&T advisor permission is required to transfer more than 69 credits toward the S\&T Architectural Engineering degree. | 53 |


| Ceramic Engineering Group 2 Major Requirements |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Clark Atlanta University | Semester |  | Missouri S\&T |  |
| HIS 211 or HIS 212 or PSC 219 | History of the US Before 1865 or History of the United States Since 1865 or American Government and Politics | 3 | HISTORY 1300 or HISTORY 1310 or POL SCI 1200 | American History to 1877 or American History since 1877 or American Government | 3 |
| EGR 211 | Engineering Statics | 3 | CIV ENG 2200 | Engineering Mechanics-Statics | 3 |
| $\begin{aligned} & \text { CHE } 231 \text { or } \\ & \text { CHE } 421 \end{aligned}$ | Organic Chemistry I (4) or Inorganic Chemistry and Lab (3) | 3-4 | CHEM 2210 or <br> CHEM 2310 | Organic Chemistry I (4) or Inorganic Chemistry I (3) (Not a specific requirement. Will satisfy the advanced chemistry elective requirement.) | 3 |
| CHE 112 | General Chemistry II | 4 | CHEM 1320 | General Chemistry II | 3 |
| MAT 321 | Mathematical Probability and Statistics I | 3 | STAT 3115 | Engineering Statistics (or any statistics course $3000-$ level or higher. Satisfies statistics elective requirement.) | 3 |
| ENG 106 or STA 101 or HSS Elective | College Composition II or Fundamentals of Speech 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 <br> Public Speaking or <br> Humanities/Social Science Elective: history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language | 3 |
|  | See your advisor for course options. | 3 |  | Humanities/Social Science Elective | 3 |
|  | No free electives applied to the degree. | 0 |  | Maximum Free Electives | 0 |
|  | Group 2 Major Requirements | 19 |  | Group 2 Major Requirements | 21 |
|  | Group 1 Core Requirements | 44 |  | Group 1 Core Requirements | 38 |
|  | Total Hours | 63 |  | Total Hours* <br> *S\&T advisor permission is required to transfer more than 68 credits toward the S\&T Ceramic Engineering degree. | 59 |


| Chemical Engineering Group 2 Major Requirements |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Clark Atlanta University |  | Semester | Missouri S\&T |  |
| ENG 106 or ENG 350 | College Composition II or Technical Writing | 3 | ENGLISH 1160 or <br> ENGLISH 3560 | Writing and Research or Technical Writing | 3 |
| HIS 211 or HIS 212 or PSC 219 | History of the US Before 1865 or History of the United States Since 1865 or American Government and Politics | 3 | HISTORY 1300 or HISTORY 1310 or POL SCI 1200 | American History to 1877 or American History since 1877 or American Government | 3 |
| CHE 112 | General Chemistry II | 4 | CHEM 1320 | General Chemistry II | 3 |
| CHE 231 | Organic Chemistry I | 4 | CHEM 2210, 2219 | Organic Chemistry I and Lab | 4 |
| CHE 232 or CHE 211 or BIO 375 or BIO 233 | Organic Chemistry II (4) or <br> Analytical Chemistry I (4) or <br> Cell and Molecular Biology (3) or <br> Microbiology (4) <br> (Will satisfy science elective requirement. Select up to 9 hours from these options.) | 8 | CHEM 2220 or <br> CHEM 2510 or <br> BIO SCI 2213, 2219 or <br> BIO SCI 3313, 3319 | Organic Chemistry II or <br> Analytical Chemistry (4) or <br> Cell Biology and Lab (4) or <br> Microbiology and Lab (5) <br> (Will satisfy science elective requirement. Select up to 9 hours from these options.) | 8 |
| CIS 105 or CIS 123 or CIS 105, 105L or CIS 106, 106L | Programming Principles I or <br> Data Structures or <br> Programming Principles I and Lab or <br> Programming Principles II and Lab | 3 | $\begin{aligned} & \text { CS 1971, } 1981 \text { or } \\ & \text { CS } 1500 \end{aligned}$ | Intro to Programming Method and Lab (C++) or Computational Problem Solving | 3 |
| MAT 321 | Mathematical Probability and Statistics I | 3 | STAT 3115 | Engineering Statistics (Will be substituted for STAT 3113.) | 3 |
| STA 101 | Fundamentals of Speech | 3 | SP\&MS 1185 | Principles of Speech | 3 |
|  | See your advisor for course options. | 3 |  | Humanities/Social Science Elective | 3 |
|  | No free electives applied to the degree. | 0 |  | Maximum Free Electives | 0 |
|  | Group 2 Major Requirements | 34 |  | Group 2 Major Requirements | 33 |
|  | Group 1 Core Requirements Total Hours | 44 |  | Group 1 Core Requirements | 38 |
|  |  | 78 |  | Total Hours* <br> *S\&T advisor permission is required to transfer more than 69 credits toward the S\&T Chemical Engineering degree. | 71 |


|  | Chemical Engineering - Biochemical Engineering Emphasis Group 2 Major Requirements |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Clark Atlanta University |  |  | Missouri S\&T |  |
| ENG 106 or ENG 350 | College Composition II or Technical Writing | 3 | ENGLISH 1160 or <br> ENGLISH 3560 | Writing and Research or Technical Writing | 3 |
| HIS 211 or HIS 212 or PSC 219 | History of the US Before 1865 or History of the United States Since 1865 or American Government and Politics | 3 | HISTORY 1300 or HISTORY 1310 or POL SCI 1200 | American History to 1877 or American History since 1877 or American Government | 3 |
| CHE 112 | General Chemistry II | 4 | CHEM 1320 | General Chemistry II | 3 |
| CHE 231 | Organic Chemistry I | 4 | CHEM 2210, 2219 | Organic Chemistry I and Lab | 4 |
| CHE 232 or CHE 211 or BIO 375 or BIO 233 | Organic Chemistry II (4) or <br> Analytical Chemistry I (4) or <br> Cell and Molecular Biology (3) or <br> Microbiology (4) <br> (Will satisty science elective requirement. Select up to 9 hours from these options.) | 8 | CHEM 2220 or <br> CHEM 2510 or <br> BIO SCI 2213, 2219 or <br> BIO SCI 3313, 3319 | Organic Chemistry II or <br> Analytical Chemistry (4) or <br> Cell Biology and Lab (4) or <br> Microbiology and Lab (5) <br> (Will satisty science elective requirement. Select up to 9 hours from these options.) | 8 |
| CIS 105 or CIS 123 or CIS 105, 105L or CIS 106, 106L | Programming Principles I or <br> Data Structures or <br> Programming Principles I and Lab or <br> Programming Principles II and Lab | 3 | $\begin{aligned} & \text { CS 1971, } 1981 \text { or } \\ & \text { CS } 1500 \end{aligned}$ | Intro to Programming Method and Lab (C++) or Computational Problem Solving | 3 |
| MAT 321 | Mathematical Probability and Statistics I | 3 | STAT 3115 | Engineering Statistics (Will be substituted for STAT 3113.) | 3 |
| STA 101 | Fundamentals of Speech | 3 | SP\&MS 1185 | Principles of Speech | 3 |
|  | See your advisor for course options. | 3 |  | Humanities/Social Science Elective | 3 |
|  | No free electives applied to the degree. | 0 |  | Maximum Free Electives | 0 |
|  | Group 2 Major Requirements | 34 |  | Group 2 Major Requirements | 33 |
|  | Group 1 Core Requirements | 44 |  | Group 1 Core Requirements | 38 |
|  | Total Hours | 78 |  | Total Hours* <br> *S\&T advisor permission is required to transfer more than 71 credits toward the S\&T Chemical/Biochemical Engineering degree. | 71 |



| Computer Engineering Group 2 Major Requirements |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Clark Atlanta University | Semester |  | Missouri S\&T |  |
| STA 101 | Fundamentals of Speech | 3 | SPMS 1185 | Public Speaking | 3 |
| ENG 106 or ENG 350 | College Composition II or Technical Writing | 3 | ENGLISH 1160 or <br> ENGLISH 3560 | Writing and Research or Technical Writing | 3 |
| HIS 211 or | History of the US Before 1865 or |  | HISTORY 1300 or | American History to 1877 or |  |
| HIS 212 or | History of the United States Since 1865 or | 3 | HISTORY 1310 or | American History since 1877 or | 3 |
| PSC 219 | American Government and Politics |  | POL SCI 1200 | American Government |  |
| CIS 105 or | Programming Principles I or |  | CS 1971, 1981 or | Intro to Programming Method and Lab ( $\mathrm{C}++$ ) or $^{\text {a }}$ |  |
| CIS 123 or | Data Structures or | 3 | CS 1500 | Computational Problem Solving |  |
| $\left\lvert\, \begin{aligned} & \text { CIS 105, 105L or } \\ & \text { CIS 106, 106L } \end{aligned}\right.$ | Programming Principles I and Lab or Programming Principles II and Lab | 3 |  |  | 3 |
| EGR 211 and | Engineering Statics (3) and |  | CIV ENG 2200 and | Engineering Mechanics-Statics (3) and |  |
| EGR 321 <br> (BOTH of the courses above or ONE of the courses below.) | Engineering Dynamics (3) (Both courses above combined or any one of the following courses will satisty a required engineering science elective.) |  | MECH ENG 2350 (BOTH of the courses above or ONE of the courses below.) | Engineering Mechanics-Dynamics (3) (Both courses above combined or any one of the following courses will satisfy a required engineering science elective.) |  |
| OR | OR | 3 | OR | OR | 3 |
| PHY 211 or | Modern Physics I (3) |  | PHYSICS 2311 or | Modern Physics I (3) |  |
| CHE 231 or | Organic Chemistry I (4) or |  | CHEM 2210 or | Organic Chemistry I (4) or |  |
| BIO 375 or | Cell Biology (3) or |  | BIO SCI 2213 or | Cell Biology (3) or |  |
| BIO 312 | Genetics I (3) |  | BIO SCI 2223 | General Genetics (3) |  |
| EGR 201 | Electrical Circuit Analysis | 4 | EE 2100** | Circuits I *A passing grade on the Missouri S\&T EE Advancement Exam I is required to receive credit for EE 2100 . | 3 |
| MAT 214 | Linear Algebra | 3 | MATH 3108 | Linear Algebra (Will satisty a required math elective.) | 3 |
| MAT 321 | Mathematical Probability and Statistics I | 3 | STAT 3115 | Engineering Statistics (Will be substituted for STAT 3117.) | 3 |
|  | See your advisor for course options. | 3 |  | Humanities/Social Science Elective | 3 |
|  | See your advisor for course options. | 3 |  | Maximum Free Electives | 3 |
|  | Group 2 Major Requirements | 31 |  | Group 2 Major Requirements | 30 |
|  | Group 1 Core Requirements | 44 |  | Group 1 Core Requirements | 38 |
|  | Total Hours | 75 |  | Total Hours* <br> *S\&T advisor permission is required to transfer more than 68 credits toward the S\&T Computer Engineering degree. | 68 |


| Electrical Engineering Group 2 Major Requirements |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Clark Atlanta University |  | Semester | Missouri S\&T |  |
| STA 101 | Fundamentals of Speech | 3 | SPMS 1185 | Public Speaking | 3 |
| ENG 106 or ENG 350 | College Composition II or Technical Writing | 3 | ENGLISH 1160 or <br> ENGLISH 3560 | Writing and Research or Technical Writing | 3 |
| HIS 211 or HIS 212 or PSC 219 | History of the US Before 1865 or History of the United States Since 1865 or American Government and Politics | 3 | HISTORY 1300 or HISTORY 1310 or POL SCI 1200 | American History to 1877 or American History since 1877 or American Government | 3 |
| EGR 211 and EGR 321 (BOTH of the courses above or ONE of the courses below.) | Engineering Statics (3) and Engineering Dynamics (3) (Both courses above combined or any one of the following courses will satisfy a required engineering science elective.) |  | CIV ENG 2200 and MECH ENG 2350 (BOTH of the courses above or ONE of the courses below.) | Engineering Mechanics-Statics (3) and Engineering Mechanics-Dynamics (3) (Both courses above combined or any one of the following courses will satisty a required engineering science elective.) |  |
| OR | OR | 3 | OR | OR | 3 |
| PHY 211 or | Modern Physics I (3) |  | PHYSICS 2311 or | Modern Physics I (3) |  |
| CHE 231 or | Organic Chemistry I (4) or |  | CHEM 2210 or | Organic Chemistry I (4) or |  |
| BIO 375 or | Cell Biology (3) or |  | BIO SCI 2213 or | Cell Biology (3) or |  |
| BIO 312 | Genetics I (3) |  | BIO SCI 2223 | General Genetics (3) |  |
| CIS 123 or CIS 105, 105L or CIS 106, 106L | Programming Principles I or <br> Data Structures or <br> Programming Principles I and Lab or <br> Programming Principles II and Lab | 3 | CS 1500 | Computational Problem Solving | 3 |
| EGR 201 | Electrical Circuit Analysis | 4 | EE 2100** | Circuits I "A passing grade on the Missouri S\&T EE Advancement Exam I is required to receive credit for EE 2100 . | 3 |
| MAT 214 | Linear Algebra | 3 | MATH 3108 | Linear Algebra | 3 |
| MAT 321 | Mathematical Probability and Statistics I | 3 | STAT 3115 | Engineering Statistics (Will be substituted for STAT 3117.) | 3 |
|  | See your advisor for course options. | 3 |  | Humanities/Social Science Elective | 3 |
|  | See your advisor for course options. | 3 |  | Maximum Free Electives | 3 |
|  | Group 2 Major Requirements | 31 |  | Group 2 Major Requirements | 30 |
|  | Group 1 Core Requirements | 44 |  | Group 1 Core Requirements | 38 |
|  | Total Hours | 75 |  | Total Hours* <br> *S\&T advisor permission is required to transfer more than 68 credits toward the S\&T Electrical Engineering degree. | 68 |


| Engineering Management Group 2 Major Requirements |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Clark Atlanta University |  | Semester | Missouri S\&T |  |
| PSY 211 | General Psychology | 3 | PSYCH 1101 | General Psychology | 3 |
| HIS 211 or | History of the US Before 1865 or |  | HISTORY 1300 or | American History to 1877 or |  |
| HIS 212 or | History of the United States Since 1865 or | 3 | HISTORY 1310 or | American History since 1877 or | 3 |
| PSC 219 | American Government and Politics |  | POL SCI 1200 | American Government |  |
| ENG 106 or | College Composition II or |  | ENGLISH 1160 or | Writing and Research or |  |
| STA 101 or | Fundamentals of Speech or | 3 | SPMS 1185 or | Principles of Speech or | 3 |
| ENG 350 | Technical Writing |  | ENGLISH 3560 | Technical Writing |  |
| CIS 105, 105L | Programming principles I and Lab | 4 | CS 1971, 1981 | Intro to Programming Method and Lab (C++) | 3 |
| EGR 201 | Electrical Circuit Analysis | 4 | EE 2800 | Circuit Analysis I | 3 |
| EGR 211 | Engineering Statics | 3 | CIV ENG 2200 | Engineering Mechanics-Statics | 3 |
| EGR 311 | Engineering Dynamics | 3 | MECH ENG 2350 | Engineering Mechanics-Dynamics | 3 |
| MAT 321 | Mathematical Probability and Statistics I | 3 | STAT 3115 | Engineering Statistics | 3 |
|  | See your advisor for course options. | 3 |  | Humanities/Social Science Elective | 3 |
|  | See your advisor for course options. | 3 |  | Maximum Free Electives | 3 |
|  | Group 2 Major Requirements | 32 |  | Group 2 Major Requirements | 30 |
|  | Group 1 Core Requirements | 44 |  | Group 1 Core Requirements | 38 |
|  | Total Hours | 76 |  | Total Hours* <br> *S\&T advisor permission is required to transfer more than 68 credits toward the S\&T Engineering Management degree. | 68 |



| Geological Engineering Group 2 Major Requirements |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Clark Atlanta University |  | Semester | Missouri S\&T |  |
|  | College Composition II or |  | ENGLISH 1160 or | Writing and Research or |  |
| STA 101 or ENG 350 | Fundamentals of Speech or Technical Writing | 3 | SPMS 1185 or ENGLISH 3560 | Public Speaking or Technical Writing | 3 |
| HIS 211 or | History of the US Before 1865 or |  | HISTORY 1300 or | American History to 1877 or |  |
| HIS 212 or | History of the United States Since 1865 or | 3 | HISTORY 1310 or | American History since 1877 or | 3 |
| PSC 219 | American Government and Politics |  | POL SCI 1200 | American Government |  |
| EGR 211 | Engineering Statics | 3 | CIV ENG 2200 | Engineering Mechanics-Statics | 3 |
| EGR 311 | Engineering Dynamics | 3 | MECH ENG 2350 | Engineering Mechanics-Dynamics | 3 |
| BIO 111 or | General Biology I or |  | BIO SCI 1113 or | General Biology or |  |
| CHE 112 or | General Chemistry II or |  | CHEM 1320 or | General Chemistry II or |  |
| CHE 231 | Organic Chemistry I <br> or any 3-hour course in chemistry, geochemistry, or biology. Satisfies chemistry/geochemistry elective requirement. | 4 | CHEM 2210 | Organic Chemistry I <br> or any 3-hour course in chemistry, geochemistry, or biology. Satisfies chemistry/geochemistry elective requirement. | 3 |
|  | See your advisor for course options. | 3 |  | Humanities/Social Science Elective | 3 |
|  | See your advisor for course options. | 3 |  | Humanities/Social Science Elective | 3 |
|  | No free electives applied to the degree. | 0 |  | Maximum Free Electives | 0 |
|  | Group 2 Major Requirements | 22 |  | Group 2 Major Requirements | 21 |
|  | Group 1 Core Requirements | 44 |  | Group 1 Core Requirements | 38 |
|  | Total Hours | 66 |  | Total Hours* <br> *S\&T advisor permission is required to transfer more than 68 credits toward the S\&T Geological Engineering degree. | 59 |



| Metallurgical Engineering Group 2 Major Requirements |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Clark Atlanta University |  | Semester | Missouri S\&T |  |
| ENG 106 or STA 101 or ENG 350 | College Composition II or Fundamentals of Speech or Technical Writing | 3 | ENGLISH 1160 or SPMS 1185 or ENGLISH 3560 | Writing and Research or Public Speaking or Technical Writing | 3 |
| HIS 211 or HIS 212 or PSC 219 | History of the US Before 1865 or History of the United States Since 1865 or American Government and Politics | 3 | HISTORY 1300 or HISTORY 1310 or POL SCI 1200 | American History to 1877 or American History since 1877 or American Government | 3 |
| EGR 211 | Engineering Statics | 3 | CIV ENG 2200 | Engineering Mechanics-Statics | 3 |
| MAT 321 | Mathematical Probability and Statistics I | 3 | STAT 3115 | Engineering Statistics | 3 |
| CHE 112 | General Chemistry II | 4 | CHEM 1320 | General Chemistry II | 3 |
| CHE 231 or CHE 421 or EGR 201 or PHY 211 | Organic Chemistry I (4) or Inorganic Chemistry and Lab (3) or Electrical Circuit Analysis (4) or Modern Physics (3) | 3-4 | CHEM 2210 or <br> CHEM 2310 or <br> EE 2800 or <br> PHYSICS 2311 | Organic Chemistry I (4) or <br> Inorganic Chemistry I (3)or <br> Electrical Circuits (3) or <br> Modern Physics I (3) <br> Not specifically required for the degree but will satisty Out-of-Department Technical Elective Requirement. | 3 |
|  | See your advisor for course options. | 3 |  | Humanities/Social Science Elective | 3 |
|  | See your advisor for course options. | 3 |  | Humanities/Social Science Elective | 3 |
|  | See your advisor for course options. | 5 |  | Maximum Free Electives | 5 |
|  | Group 2 Major Requirements | 27 |  | Group 2 Major Requirements | 29 |
|  | Group 1 Core Requirements | 44 |  | Group 1 Core Requirements | 38 |
|  | Total Hours | 71 |  | Total Hours* <br> *S\&T advisor permission is required to transfer more than 68 credits toward the S\&T Metallurgical Engineering degree. | 67 |


| Mining Engineering Group 2 Major Requirements |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Clark Atlanta University |  | Semester | Missouri S\&T |  |
| ENG 106 or ENG 350 | College Composition II or Technical Writing | 3 | ENGLISH 1160 or <br> ENGLISH 3560 | Writing and Research or Technical Writing | 3 |
| HIS 211 or HIS 212 or PSC 219 | History of the US Before 1865 or History of the United States Since 1865 or American Government and Politics | 3 | HISTORY 1300 or HISTORY 1310 or POL SCI 1200 | American History to 1877 or <br> American History since 1877 or <br> American Government | 3 |
| MAT 321 | Mathematical Probability and Statistics I | 3 | STAT 3115 | Engineering Statistics | 3 |
| EGR 211 | Engineering Statics | 3 | CIV ENG 2200* | Engineering Mechanics-Statics | 3 |
| EGR 311 | Engineering Dynamics | 3 | MECH ENG 2350 | Engineering Mechanics-Dynamics | 3 |
|  | See your advisor for course options. | 3 |  | Humanities/Social Science Elective | 3 |
|  | See your advisor for course options. | 3 |  | Humanities/Social Science Elective | 3 |
|  | No free electives applied to the degree. | 0 |  | Maximum Free Electives | 0 |
|  | Group 2 Major Requirements | 21 |  | Group 2 Major Requirements | 21 |
|  | Group 1 Core Requirements | 44 |  | Group 1 Core Requirements | 38 |
|  | Total Hours | 65 |  | Total Hours* <br> *S\&T advisor permission is required to transfer more than 68 credits toward the S\&T Mining Engineering degree. | 59 |


| Nuclear Engineering Group 2 Major Requirements |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Clark Atlanta University |  | Semester | Missouri S\&T |  |
| ENG 106 or ENG 350 | College Composition II or Technical Writing | 3 | ENGLISH 1160 or <br> ENGLISH 3560 | Writing and Research or Technical Writing | 3 |
| HIS 211 or | History of the US Before 1865 or |  | HISTORY 1300 or | American History to 1877 or |  |
| HIS 212 or | History of the United States Since 1865 or | 3 | HISTORY 1310 or | American History since 1877 or | 3 |
| PSC 219 | American Government and Politics |  | POL SCI 1200 | American Government |  |
| MAT 214 | Linear Algebra | 3 | MATH 3108 | Linear Algebra | 3 |
| EGR 211 | Engineering Statics | 3 | CIV ENG 2200 | Engineering Mechanics-Statics | 3 |
| MAT 321 | Mathematical Probability and Statistics I | 3 | STAT 3115 | Engineering Statistics | 3 |
|  | See your advisor for course options. | 3 |  | Humanities/Social Science Elective | 3 |
|  | See your advisor for course options. | 3 |  | Humanities/Social Science Elective | 3 |
|  | See your advisor for course options. | 6 |  | Maximum Free Electives | 6 |
|  | Group 2 Major Requirements | 27 |  | Group 2 Major Requirements | 27 |
|  | Group 1 Core Requirements Total Hours | 44 |  | Group 1 Core Requirements | 38 |
|  |  | 71 |  | Total Hours* <br> *S\&T advisor permission is required to transfer more than 68 credits toward the S\&T Nuclear Engineering degree. | 65 |


| Petroleum Engineering Group 2 Major Requirements |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Clark Atlanta University |  | Semester | Missouri S\&T |  |
| ENG 106 or ENG 350 | College Composition II or Technical Writing | 3 | ENGLISH 1160 or <br> ENGLISH 3560 | Writing and Research or Technical Writing | 3 |
| HIS 211 or HIS 212 or PSC 219 | History of the US Before 1865 or History of the United States Since 1865 or American Government and Politics | 3 | HISTORY 1300 or HISTORY 1310 or POL SCI 1200 | American History to 1877 or American History since 1877 or American Government | 3 |
| EGR 211 | Engineering Statics | 3 | CIV ENG 2200 | Engineering Mechanics-Statics | 3 |
| EGR 311 | Engineering Dynamics | 3 | MECH ENG 2350 | Engineering Mechanics-Dynamics | 3 |
|  | See your advisor for course options. | 3 |  | Humanities/Social Science Elective | 3 |
|  | See your advisor for course options. | 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 | 18 |
|  | Group 1 Core Requirements | 44 |  | Group 1 Core Requirements | 38 |
|  | Total Hours | 62 |  | Total Hours* <br> *S\&T advisor permission is required to transfer more than 68 credits toward the S\&T Petroleum Engineering degree. | 56 |


[^0]:    Humanities/Social Science (HSS) Electives: HSS electives may include any history, economics, political science, sociology, psychology, philosophy, fine art, literature, or foreign language.

