

MAJOR IN GEOLOGY, GEOPHYSICS CONCENTRATION

Major Completion Map

Freshman

| Semester 1 | | Critical | Recommended | AUCC | Credits |
|--|--|----------|-------------|------|---------|
| CHEM 111 | General Chemistry I (GT-SC2) | X | | 3A | 4 |
| CHEM 112 | General Chemistry Lab I (GT-SC1) | X | | 3A | 1 |
| CO 150 | College Composition (GT-CO2) | X | | 1A | 3 |
| GEOL 150 | Dynamic Earth (GT-SC2) | X | | 3A | 4 |
| GEOL 192 | New Student Seminar--Exploring Geosciences | X | | | 1 |
| Social and Behavioral Sciences (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#social-behavioural-sciences) | | | X | 3C | 3 |

Total Credits

16

| Semester 2 | | Critical | Recommended | AUCC | Credits |
|--|---|----------|-------------|------|---------|
| GEOL 154 | Historical and Analytical Geology | X | | | 4 |
| MATH 160 | Calculus for Physical Scientists I (GT-MA1) | X | | 1B | 4 |
| Diversity, Equity, and Inclusion (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#diversity-equity-inclusion) | | X | | 1C | 3 |
| Electives | | | X | | 3 |
| CO 150 and AUCC 1B (Quantitative Reasoning) must be completed by the end of Semester 2. | | X | | | |

Total Credits

14

Sophomore

| Semester 3 | | Critical | Recommended | AUCC | Credits |
|------------|---|----------|-------------|------|---------|
| CHEM 113 | General Chemistry II | X | | | 3 |
| CHEM 114 | General Chemistry Lab II | X | | | 1 |
| GEOL 232 | Mineralogy | X | | | 3 |
| MATH 161 | Calculus for Physical Scientists II (GT-MA1) | X | | 1B | 4 |
| PH 141 | Physics for Scientists and Engineers I (GT-SC1) | X | | 3A | 5 |

Total Credits

16

| Semester 4 | | Critical | Recommended | AUCC | Credits |
|---|--------------------------------------|----------|-------------|------|---------|
| GEOL 250 | The Solid Earth | X | | | 3 |
| GEOL 364 | Igneous and Metamorphic Petrology | X | | 4B | 4 |
| MATH 151 | Mathematical Algorithms in Matlab I | X | | | 1 |
| MATH 261 | Calculus for Physical Scientists III | X | | | 4 |
| Historical Perspectives (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#historical-perspectives) | | | X | 3D | 3 |
| CHEM 113 must be completed by the end of Semester 4. | | X | | | |

Total Credits

15

Junior

| Semester 5 | | Critical | Recommended | AUCC | Credits |
|---------------------------------------|--|----------|-------------|------|---------|
| GEOL 344 | Stratigraphy and Sedimentology | X | | 4A | 4 |
| PH 142 | Physics for Scientists and Engineers II (GT-SC1) | X | | 3A | 5 |
| Select one course from the following: | | X | | | 3 |
| MATH 369 | Linear Algebra I | | | | |
| STAT 301 | Introduction to Applied Statistical Methods | | | | |
| STAT 315 | Intro to Theory and Practice of Statistics | | | | |

| | | | | | |
|---|---|----------|-------------|-------|---------|
| Arts and Humanities (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities) | | X | 3B | 3 | |
| MATH 261 must be completed by the end of Semester 5. | | X | | | |
| Total Credits | | | | 15 | |
| Semester 6 | | Critical | Recommended | AUCC | Credits |
| GEOL 372 | Structural Geology | X | | 4B | 4 |
| GEOL 376 | Geologic Field Methods | X | | 4A,4C | 3 |
| MATH 340 | Intro to Ordinary Differential Equations | X | | | 4 |
| Select one course from the following: | | X | | | 3 |
| CO 300 | Writing Arguments (GT-CO3) | | | 2 | |
| CO 301B | Writing in the Disciplines: Sciences (GT-CO3) | | | 2 | |
| JTC 300 | Strategic Writing and Communication (GT-CO3) | | | 2 | |
| Total Credits | | | | 14 | |
| Semester 7 | | Critical | Recommended | AUCC | Credits |
| GEOL 436 | Geology Summer Field Course | X | | 4C | 6 |
| Total Credits | | | | 6 | |
| Senior | | | | | |
| Semester 8 | | Critical | Recommended | AUCC | Credits |
| Directed Technical Electives (See Department List on Concentration Requirements tab) | | X | | | 8 |
| Electives | | | X | | 2-6 |
| STAT 301, STAT 315, or MATH 369 must be completed by the end of Semester 8. | | X | | | |
| Total Credits | | | | 10-14 | |
| Semester 9 | | Critical | Recommended | AUCC | Credits |
| Directed Technical Electives (See Department List on Concentration Requirements tab) | | X | | | 4-6 |
| Upper-Division Geology Elective | | X | | | 3-5 |
| Arts and Humanities (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities) | | | | 3B | 3 |
| The benchmark courses for the 9th semester are the remaining courses in the entire program of study. | | X | | | |
| Total Credits | | | | 10-14 | |
| Program Total Credits: | | | | 120 | |