

Colorado State University Geosciences Department  
Geophysics Concentration: 120 Credit Minimum

Freshman Year	Credits	Sophomore Year	Credits
<u>Fall Semester</u> CO 150: College Composition GEOL 150: Physical Geology for Scientists CHEM 111: General Chemistry I CHEM 112: General Chemistry I lab AUCC 3B: Arts and Humanities  <u>Spring Semester</u> GEOL 154: Historical and Analytical Geology MATH 160: Calculus for Physical Sciences I AUCC 3C: Social/Behavioral Sciences CHEM 113: General Chemistry II CHEM 114: General Chemistry II lab	3 4 4 1 3  4 4 3 3 1	<u>Fall Semester</u> GEOL 232: Mineralogy Math 161: Calculus for Physical Sciences II PH 141: Physics for Scientists I AUCC 3D: Historical Perspectives  <u>Spring Semester</u> GEOL 364: Igneous and Metamorphic Petrology GEOL 250: The Solid Earth MATH 151: Math Algorithms in Matlab I MATH 261: Calculus for Physical Sciences III	3 4 5 3  4 3 1 4
Junior Year	Credits	Senior Year	Credits
<u>Fall Semester</u> GEOL 344: Sedimentation and Stratigraphy PH 142: Physics for Scientists II STAT 301 or STAT 315 or MATH 369 AUCC 3B: Arts and Humanities  <u>Spring Semester</u> GEOL 372: Structural Geology GEOL 376: Geologic Field Methods MATH 340: Intro to Ordinary Differential Equations CO 300 or CO 301B or JTC 300  <u>Summer Semester</u> GEOL 436: Summer Field Course	4 5 3 3  4 3 4 3  6	<u>Fall Semester</u> Directed Technical Elective Elective  <u>Spring Semester</u> AUCC 3E: Global and Cultural Awareness Upper Division Geology Course Directed Technical Elective Elective  *Additional courses may be required to fulfill prerequisite requirements. <b>Program total</b>	8 4  3 3-5 4-6 4   <b>120</b>

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Technical Elective List (must complete minimum of 12 credits)

<u>Course Subject Code and Number</u>	<u>Title</u>	<u>Credits</u>
GEOL 442 <sup>P</sup>	Applied Geophysics	4
GEOL 570 <sup>P</sup>	Plate Tectonics	3
GEOL 576 <sup>P</sup>	Geodynamics	3
GEOL 578 <sup>P</sup>	Global Seismology	3
GEOL 579 <sup>P</sup>	Solid Earth Inverse Methods and Practices	3
MATH 317 <sup>P</sup>	Advanced Calculus of One Variable	3
MATH 332 <sup>P</sup>	Partial Differential Equations	3
MATH 369 <sup>P</sup>	Linear Algebra I (*only if not used to fulfill junior requirement)	3
MATH 417 <sup>P</sup>	Advanced Calculus I	3
MATH 418 <sup>P</sup>	Advanced Calculus II	3
MATH 419 <sup>P</sup>	Introduction to Complex Variables	3
MATH 450 <sup>P</sup>	Introduction to Numerical Analysis I	3
MATH 469 <sup>P</sup>	Linear Algebra II	3
MATH 530 <sup>P</sup>	Mathematics for Scientists and Engineers	4
PH 245 <sup>P</sup>	Introduction to Electronics	3
PH 314 <sup>P</sup>	Introduction to Modern Physics	4
PH 341 <sup>P</sup>	Mechanics	4
PH 351 <sup>P</sup>	Electricity and Magnetism	4
PH 353 <sup>P</sup>	Optics and Waves	4
PH 361 <sup>P</sup>	Physical Thermodynamics	3
STAT 301 <sup>P</sup> or STAT 315 <sup>P</sup>	Introduction to Statistical Methods OR Statistics for Engineers and Scientists (*can take one or other only if not taken to fulfill junior year requirement)	3

<sup>P</sup> This course has at least one prerequisite. Check the Courses of Instruction of the catalog at <http://catalog.colostate.edu> to see the course prerequisites.

**Classes outside of this list may be taken with approval of the department advisor and department head.**