



Teacher Licensing Program
 Center for Educator Preparation
 111 Education Building
 (970) 491-5292
<https://www.chhs.colostate.edu/soe/center-for-educator-preparation/>

Student's Name: _____

Email Address: _____

CSU ID Number: _____

**SCIENCE EDUCATION – Geology Concentration
 Curriculum Check-sheet
 121-124 Credits**

Note to the Student: This check-sheet describes the curricular requirements for both the Bachelor of Science in Natural Sciences with a concentration in Geology Education and for the teacher licensing program in science (geology). The courses listed are courses in both areas. All curricular requirements on this check-sheet, along with other programmatic requirements, must be met in order to receive the institutional recommendation for the teaching endorsement. A minimum of 42 credits must be completed in upper-division coursework. **The Teacher Licensing Program is a non-degree program; bachelor degrees in education are not awarded.**

Professional Education Courses – 33 credits

____ EDUC 275* Schooling in the US	3	
____ EDUC 340 Literacy & the Learner	3	
____ EDUC 350 Instruction I	3	
____ EDUC 386 Practicum-Instruction I	1	
____ EDUC 461A ^Ω Science Methods I	3	
____ EDUC 450 Instruction II	4	
____ EDUC 486E Practicum-Instruction II	1	
____ EDUC 461B ^Σ Science Methods II	3	
____ EDUC 485B Student Teaching-Secondary 11		
____ EDUC 493A Seminar: Prof Relations	1	

All University Core Curriculum – 18 credits

____ Written Communication (1A)	3	____ CO150
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Mathematics**

____ Calculus I (1B)	4	
____ Advanced Writing (2B)	3	

Biological/Physical Sciences (3A)

____ LIFE 102* Attributes of Living Systems	4	
____ -AND-		
____ CHEM 111* General Chemistry I	4	
____ -AND-		
____ CHEM 112* General Chemistry I Lab	1	
____ Arts and Humanities (3B)	3	
____ Addtl Arts and Humanities (3B)	3	
____ Social/Behavioral Sciences (3C)	3	____ EDUC275
____ Historical Perspectives (3D)	3	
____ Global & Cultural Awareness (3E)	3	

Depth & Integration (4A, 4B, 4C)

____ EDUC 485B Student Teaching-Sec	11	
____ EDUC 493A Seminar: Prof Relations	1	

**Prerequisites for calculus could account for 5 additional credits.

*Offered Summer Semester
^ΩOffered only Fall Semester
^ΣOffered only Spring Semester

See the back of this check-sheet for important course requirements and advising reminders. ➔ ➔ ➔

General Science Content Courses – 34 credits

____ GEOL 120* Physical Geology	3	
____ GEOL 121* Physical Geology Lab	1	
____ -OR-		
____ GEOL 150 ^Ω Phys Geology for Sci & Eng	4	
____ LIFE 102* Attributes of Living Systems	4	
____ LIFE 103* Bio Organisms-Animal/Plant	4	
____ CHEM 111* General Chemistry I	4	
____ CHEM 112* General Chemistry I Lab	1	
____ CHEM 113* General Chemistry II	3	
____ CHEM 114* General Chemistry II Lab	1	
____ PH 121* General Physics I	5	
____ PH 122 General Physics II	5	

-OR-

____ PH141* Physics for Sci & Eng I	5	
____ PH 142 Physics for Sci & Eng II	5	
____ STAT 301* Intro to Statistical Methods	3	

Geology Concentration Content Courses – 36 - 39credits

____ AA 100* Intro to Astronomy	3	
____ -OR-		
____ NR 150* Oceanography I	3	
____ ATS 350 ^Ω Intro to Weather & Change	2	
____ GEOL 154 ^Σ Historical & Analytical Geol	4	
____ GEOL 232 ^Ω Mineralogy	3	
____ GEOL 454 ^Σ Geomorphology	4	

Need three courses of geology science electives:

____ GEOL 250 ^Σ The Solid Earth	3	
____ GEOL 342 ^Ω Paleontology	3	
____ GEOL 344 ^Ω Stratigraphy & Sedimentology	4	
____ GEOL 364 ^Σ Igneous & Meta Petrology	4	
____ GEOL 372 ^Σ Structural Geology	4	
____ GEOL 424 ^Σ Modern Gas & Oil	3	
____ GEOL 446 ^Σ Environmental Geology	3	
____ GEOL 452 ^Ω Hydrogeology	4	
____ MATH 155* Calculus-Bio Scientists I	4	
____ MATH 255 Calculus Bio Scientists II	4	
____ -OR-		
____ MATH 160* Calculus-Phys Scientists I	4	
____ MATH 161* Calculus-Phys Scientists II	4	

Need 3 credits of general science/mathematics electives:

____ Science Elective		
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It is recommended that students take the required courses in the following sequence in order to avoid time conflicts. In some cases, the section number that will work is noted or the time that a class is offered if there is only one section.

Freshman Fall Semester (16 credits)

CHEM 111 & CHEM 112
CO 150
GEOL 120 & GEOL 121 or GEOL 150
MATH 155 or MATH 160

Freshman Spring Semester (15 credits)

AA 100 (MWF 3 – 3:50 p.m.) or
NR 150 (TR 9:30 – 10:45 a.m.)
CHEM 113 & CHEM 114
GEOL 154 (MWF 11 – 11:50 a.m. plus lab time –
Spring ONLY)
MATH 255 or MATH 161

Sophomore Fall Semester (17 credits)

GEOL 232 (MW 11 – 11:50 a.m. plus lab time– Fall
ONLY)
Historical Perspectives (AUCC 3D)
PH 121 or PH 141
Science Elective (3 credits)
STAT 301

Sophomore Spring Semester (15 credits)

EDUC 275 (AUCC 3C)
EDUC 340
LIFE 102
PH 122 or PH 142

Junior Fall Semester (15 – 16 credits)

ATS 350 (TR 1 – 1:50 p.m. – Fall ONLY)
Diversity & Global Awareness (AUCC 3E)
EDUC 350 & EDUC 386 (Section 1 or 5)
EDUC 461A (MW 9 – 10:40 a.m. – Fall ONLY)
Geology Elective (3-4 credits)

Junior Spring Semester (16 – 17 credits)

EDUC 461B (MW 10 – 11:40 a.m. – Spring ONLY)
GEOL 454 (TR 8 – 8:50 a.m. plus lab time – Spring
ONLY)
Geology Elective (1 course)
Advanced Writing (AUCC 2)
Arts & Humanities (AUCC 3B)

Senior Fall Semester (15 – 16 credits)

EDUC 450 & EDUC 486 (TR 8 – 11:50 a.m.)
LIFE 103 (MWF (9 – 9:50 a.m. plus lab time)
Arts & Humanities (AUCC 3B)
Geology Elective (1 course)

Senior Spring Semester (12 credits)

EDUC 485B
EDUC 493A