Teacher Licensing Program  
School of Teacher Education and Principal Preparation  
100 Education Building  
(970) 491-5292  
www.stepp.cahs.colostate.edu

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 331* Ed Tech & Assessment 2
___EDUC 350* Instruction I 3
___EDUC 386* Practicum-Instruction I 1
___EDUC 450 Instruction II 4
___EDUC 486E Practicum-Instruction II 1
___EDUC 460 Methods/Materials Science 4
___EDUC 485B Student Teaching-Sec 11
___EDUC 493A Seminar: Prof Relations 1

All University Core Curriculum – 18 credits
Written Communication (1A) 3  CO150
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
___Add’l 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.
°Requirements met with other required coursework
*Offered Summer Semester
°Offered only Fall Semester
°Offered only Spring Semester
See the back of this check-sheet for important course requirements and advising reminders.

Teaching Concentration (Content) Courses – 70-73 credits
___AA 100* Intro to Astronomy 3
-OR-
___NR 150* Oceanography I 3
___ATS 350 Intro to Weather & Change 2
___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
___LIFE 102* Attributes of Living Systems 4
___LIFE 103* Bio Organisms-Animals/Plants 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
___PH 141* Physics for Scientists & Eng I 5
___PH 142 Physics for Scientists & Eng II 5
___STAT 301* Intro to Statistical Methods 3
___GEOL 120* Physical Geology 3
___GEOL 121* Physical Geology Lab 1
-OR-
___GEOL 150³ Phys Geology for Sci & Eng 4
___GEOL 154* Historical & Analytical Geol 4
___GEOL 232³ Mineralogy 3
___GEOL 454³ Geomorphology 4
Need three courses of geology science electives:
___GEOL 250³ The Solid Earth 3
___GEOL 342³ Paleontology 3
___GEOL 344³ Stratigraphy & Sedimentology 4
___GEOL 364³ Igneous & Meta Petrology 4
___GEOL 366³ Petrology & Geochemistry 4
___GEOL 372³ Structural Geology 4
___GEOL 446³ Environmental Geology 3
___GEOL 452³ Hydrogeology 4
Need 3 credits of general science/mathematics electives:
___Science Elective

Science (Geology) Education (revised Fall 2014)  
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Important Coursework Requirements:
1) To enroll in EDUC 275 and EDUC 340, students must have completed 30 credits of post-secondary coursework and plan to pursue completion of the Licensure Program at CSU.
2) Students must be admitted to the Licensure Program to enroll in Phase II courses, EDUC 331, EDUC 350 and EDUC 386.
3) Because the coursework content and field experiences build upon previous courses, the phases cannot be taken concurrently or out of sequence.
4) Grades in ALL education courses and teaching content courses must be C or above.
5) Students cannot advance to the next phase of the program with incomplete grades or grades of C- or below in professional education courses.

Coursework Model of the Teacher Licensure Program – Secondary and K-12 Endorsements (Revised for Spring 2010)
Colorado State University

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<tr>
<th>PHASE I</th>
<th>PHASE II</th>
<th>PHASE III</th>
<th>PHASE IV</th>
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<tbody>
<tr>
<td>EDUC 275 “Schooling in the United States” 3 credits (Course includes field experiences in the P-12 school system)</td>
<td>EDUC 350 “Instruction I: Individualization/Management” 3 credits (Course is a Professional Development School (PDS) at the public junior high schools)</td>
<td>EDUC 450 “Instruction II: Standards and Assessment” 4 credits (Course is a Professional Development School (PDS) at the public high schools)</td>
<td>EDUC 485B “Student Teaching” 11 credits (Course entails 15-16 weeks of full-time experience in a cooperating school site)</td>
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<tr>
<td>EDUC 340 “Literacy and the Learner” 3 credits (Course includes field experiences in the school system)</td>
<td>EDUC 386 “Practicum: Instruction I” 1 credit (Course includes field experiences aligned with EDUC 350)</td>
<td>EDUC 486E “Practicum II: Instruction II” 1 credit (Course includes field experiences aligned with EDUC 450)</td>
<td>EDUC 493A “Seminar: Professional Relations” 1 credit (Course is taken concurrently with EDUC 485B)</td>
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<td>Pass on State Licensure Exam Required to Begin Student Teaching</td>
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<td>Admission Required to Enroll in PHASE II EDUC Courses</td>
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Substitution Approval:

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<tr>
<th>Student</th>
<th>Date</th>
<th>Education Advisor</th>
<th>Date</th>
<th>Director, Teacher Licensure Program</th>
<th>Date</th>
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</thead>
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Mission of the Teacher Licensure Program
To teach and model best educational practice in order to prepare emerging professionals to facilitate student success.

Professional Program Accreditation
The Program is accredited by the Teacher Education Accreditation Council, the Colorado Commission on Higher Education, and the Colorado Department of Education.