



Educator Preparation Program
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 – Chemistry Concentration
Curriculum Check-sheet
120 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 Chemistry Education and for the teacher licensing program in science. 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 – 34 credits

____ EDUC 275* Schools, Society & Self	3	
____ EDUC 250 Student Centered Teaching	3	
____ EDUC 355 Relational Classrooms	3	
____ EDUC 386 MS Field Placement	1	
____ EDUC 310 Instruction & Assessment	2	
____ NSCI 200 ^Ω Scientific Inquiry	1	
____ EDUC 455 Differentiating Classrooms	3	
____ EDUC 486 HS Field Placement	2	
____ EDUC 460 ^Σ Science Methods	3	
____ EDUC 410 Literacy & Numeracy	1	
____ EDUC 485B Student Teaching-Secondary	11	
____ EDUC 493A Seminar: Prof Relations	1	

All University Core Curriculum – 18 credits

____ Written Communication (1A)	3	____ CO150
Mathematics**		
____ Calculus I (1B)	4	
____ Diversity, Equity & Inclusion (1C)	3	____ EDUC175
____ Advanced Writing (2)	3	
Biological/Physical Sciences (3A)		
____ LIFE 102* Attributes of Living Systems	4	
-AND-		
____ CHEM 120* Fdns in Modern Chemistry	4	
-AND-		
____ CHEM 121* Modern Chemistry Lab	1	
____ Arts & Humanities (3B)	3	
____ Arts & Humanities (3B)	3	
____ Social & Behavioral Sciences (3C)	3	____ EDUC275
____ Historical Perspectives (3D)	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 – 38 credits

____ AA 100* Intro to Astronomy	3	
____ AA101* Astronomy Laboratory	1	
-OR-		
____ GEOL 120* Physical Geology	3	
____ GEOL 121* Physical Geology Lab	1	
____ ATS 150 Science of Global Climate	3	
-OR-		
____ NR 150 Oceanography	3	
____ LIFE 102* Attributes of Living Systems	4	
____ LIFE 103* Bio Organisms-Animal/Plant	4	
____ CHEM 120 Fdns in Modern Chemistry	4	
____ CHEM 121 Modern Chemistry Lab	1	
____ CHEM 231 Fdns of Analytical Chemistry	3	
____ CHEM 232 Analytical Chemistry Lab	2	
____ 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	

Chemistry Concentration Content Courses – 30 credits

____ CHEM192 ^Ω Intro Seminar in Chemistry	2	
____ CHEM 241 ^Σ Organic Chemistry	4	
____ CHEM 242 ^Σ Organic Chemistry Lab	1	
____ CHEM 263 ^Σ Inorganic Chemistry	4	
____ CHEM 264 ^Σ Inorganic Chemistry Lab	1	
____ CHEM 321 ^Σ Chemical Biology	4	
____ CHEM 322 ^Σ Chemical Biology Lab	1	
____ CHEM 371 ^Ω Physical Chemistry	4	
____ CHEM 372 ^Ω Physical Chemistry Lab	1	
____ MATH 155* Calculus-Biological Sci I	4	
____ MATH 271 Applied Math for Chemists I	4	
-OR-		
____ MATH 160* Calculus-Physical Sci I	4	
____ MATH 161* Calculus-Physical Sci II	4	

Need 6 credits of general science/mathematics electives:

____ Science Electives	_____
____ Science Electives	_____

Important Coursework Requirements:

- 1) Students must be admitted to the Licensure Program to enroll in Phase II courses, EDUC 350, EDUC 386 and EDUC461A.
- 2) Students must have a 2.75 or higher GPA to graduate with this degree.
- 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 a 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 Fall 2026)
Colorado State University

PHASE I	Admission Required to Enroll in PHASE II EDUC Courses	PHASE II	PHASE III	PHASE IV
<u>EDUC 175</u> <i>Identity Literacy and Education Dialogues</i> 3 credits (Course counts for AUCC 1C) <u>EDUC 275</u> <i>Schools, Society & Self</i> 3 credits (Course includes a single day of field experiences in the P-12 schools and counts for AUCC 3C) <u>EDUC 250</u> <i>Student-Centered and Asset-Based Teaching</i> 2 credits (Course includes 1.5 hours, 1-time weekly field experience in K-12 classrooms)		<u>EDUC 355</u> <i>Creating and Sustaining Relational Classrooms</i> 3 credits (Course is hosted at a local public middle school) <u>EDUC 386</u> <i>Middle School Field Placement</i> 1 credit (Includes 1.2 hours, 2-times weekly, middle school field experience aligned with EDUC355) <u>EDUC 310</u> <i>Planning Asset-Based Instruction and Assessments</i> 2 credits <u>NSCI 200</u> <i>Scientific Inquiry in Educational Settings</i> 1 credit (This course meets for 3 hours on Fridays)	<u>EDUC 455</u> <i>Differentiating Classroom Instruction</i> 3 credits (Course is hosted at a local, public high school) <u>EDUC 486</u> <i>High School Field Placement</i> 2 credits (Includes 3 hours 2-times weekly, high school field experience aligned with EDUC 450) <u>EDUC 410</u> <i>Literacy and Numeracy Across Content Areas</i> 1 credit (Course is offered online only) <u>EDUC 460</u> <i>Methods & Materials in Teaching Science</i> 3 credits (Course is a Spring only class)	<u>EDUC 485B</u> <i>Student Teaching</i> 11 credits (Course entails 15-16 weeks of full-time experience at a cooperating school site) <u>EDUC 493A</u> <i>Seminar: Professional Relations</i> 1 credit (Course is taken concurrently with EDUC 485B) Successful completion of program coursework, field experiences and other requirements leads to an: Institutional Recommendation for a Colorado Initial Educator License in Secondary Science

Substitution Approval:

Student	Date	BSNS Advisor	Date	Director, Teacher Preparation Program	Date
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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.