



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 – Biology Concentration
Curriculum Check-sheet
122 - 123 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 Biology 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 in the state of Colorado. 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	
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____ EDUC 350 Instruction I	3	
____ EDUC 386 Practicum-Instruction I	1	
____ EDUC 461A ^Ω Science Methods I	3	
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____ EDUC 450 Instruction II	4	
____ EDUC 486E Practicum-Instruction II	1	
____ EDUC 461B ^Σ Science Methods II	3	
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____ 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	_____
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____ Advanced Writing (2B)	3	_____
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Biological/Physical Sciences (3A)		
____ LIFE 102* Attributes of Living Systems	4	_____
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-AND-		
____ CHEM 111* General Chemistry I	4	_____
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-AND-		
____ CHEM 112* General Chemistry I Lab	1	_____
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____ Arts and Humanities (3B)	3	_____
____ Arts and Humanities (3B)	3	_____
____ Social/Behavioral Sciences (3C)	3	____ EDUC275
____ Historical Perspectives (3D)	3	_____
____ Global & Cultural Awareness (3E)	3	_____
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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

____ AA 100* Intro to Astronomy	3	
____ AA101* Astronomy Laboratory	1	
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-OR-		
____ GEOL 120* Physical Geology	3	
____ GEOL 121* Physical Geology Lab	1	
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____ LIFE 102* Attributes of Living Systems	4	_____
____ LIFE 103* Bio Organisms-Animal/Plant	4	_____
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____ 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	_____
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____ PH 121* General Physics I	5	_____
____ PH 122 General Physics II	5	_____
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-OR-		
____ PH141* Physics for Sci & Eng I	5	_____
____ PH 142 Physics for Sci & Eng II	5	_____
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____ STAT 301* Intro to Statistical Methods	3	_____

Biology Concentration Content Courses – 37 - 38 credits

____ BZ 350* Molecular & General Genetics	4	_____
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-OR-		
____ SOCR 330 Principles of Genetics	3	_____
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____ BMS 300* Prin-Human Anat/Phys	4	_____
____ BZ 220* Introduction to Evolution	3	_____
____ BZ 310* Cell Biology	4	_____
____ BZ 311 ^Σ * Developmental Biology	4	_____
____ CHEM 245 Fundamentals of OChem	4	_____
____ CHEM 246 Fundamentals of OChem Lab	1	_____
____ LIFE 320* Ecology	3	_____
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____ MATH 155* Calculus-Bio Sci I	4	_____
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-OR-		
____ MATH 160* Calculus-Physical Sci I	4	_____

Need 7 credits of general science/mathematics electives:

____ Science Elective	_____
____ Science Elective	_____
____ Science Elective	_____

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 (15 credits):

Arts & Humanities (AUCC 3B)
CHEM 111 & CHEM 112
CO 150
LIFE 102

Freshman Spring Semester (16 credits)

AA 100 (3 – 3:50 p.m.) & AA101 or
GEOL 120 & GEOL 121
CHEM 113 & CHEM 114
LIFE 103
MATH 155 or MATH 160

Sophomore Fall Semester (17 credits)

Arts & Humanities (AUCC 3B)
BZ 220 (TR 12:30 – 1:45 p.m.)
Diversity & Global Awareness (AUCC 3E)
PH 121 or PH 141
STAT 301

Sophomore Spring Semester (15 credits)

BZ 310 (MWF 1 - 1:50 p.m. plus lab time)
EDUC 275 (AUCC 3C)
EDUC 340
PH 122 (Section 2) or
PH 142 (this will conflict with BZ310)

Junior Fall Semester (15 credits)

Advanced Writing (AUCC 2)
CHEM 245 (Section 003) & CHEM 246
EDUC 350 & EDUC 386 (Section 1 or 5)
EDUC 461A (MW 9 - 10:40 a.m. – Fall ONLY)

Junior Spring Semester (17 credits)

BMS 300 (Section 2)
BZ 311 (8 - 8:50 a.m. plus lab time – Spring ONLY)
EDUC 461B (MW 10 – 11:40 a.m. – Spring ONLY)
Historical Perspectives (AUCC 3D)
Science/Math Elective (3 credits)

Senior Fall Semester (15 – 16 credits)

BZ 350 (MWF 3 – 3:50 p.m. plus recitation time) or
SOCR 330 (MWF 10 – 10:50 a.m.)
EDUC 450 & EDUC 486 (TR 8 – 11:50 a.m.)
LIFE 320 (Section 1)
Science/Math Elective (4 credits)

Senior Spring Semester (12 credits)

EDUC 485B
EDUC 493A