



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

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	
___ 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
<b>Mathematics**</b>		
___ Calculus I (1B)	4 <sup>∞</sup>	
___ Advanced Writing (2B)	3	
<b>Biological/Physical Sciences (3A)</b>		
___ LIFE 102* Attributes of Living Systems <sup>4∞</sup>		
<b>-AND-</b>		
___ CHEM 107* Fundamentals of Chemistry <sup>4∞</sup>		
<b>-AND-</b>		
___ CHEM 108* Fundamentals of Chem Lab <sup>1∞</sup>		
___ Arts and Humanities (3B)	3	
___ Add'l Arts and Humanities (3B)	3	
___ Social/Behavioral Sciences (3C)	3 <sup>∞</sup>	___ EDUC275
___ Historical Perspectives (3D)	3	
___ Global & Cultural Awareness (3E)	3	
<b>Depth &amp; Integration (4A, 4B, 4C)</b>		
___ EDUC 485B Student Teaching-Sec	11 <sup>∞</sup>	
___ EDUC 493A Seminar: Prof Relations	1 <sup>∞</sup>	

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

<sup>∞</sup>Requirements met with other required coursework

\*Offered Summer Semester

<sup>∞</sup>Offered only Fall Semester

<sup>∞</sup>Offered only Spring Semester

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

**Teaching Concentration (Content) Courses – 71-72 credits**

___ AA 100* Intro to Astronomy	3	
___ AA101* Astronomy Laboratory	1	
<b>-OR-</b>		
___ GEOL 120* Physical Geology	3	
___ GEOL 121* Physical Geology Lab	1	
___ BZ 350* Molecular & General Genetics	4	
<b>-OR-</b>		
___ SOCR 330 Principles of Genetics	3	
___ BMS 300* Prin-Human Anat/Phys	4	
___ BZ 220* Introduction to Evolution	3	
___ BZ 310* Cell Biology	4	
___ BZ 311 <sup>∞</sup> * Developmental Biology	4	
___ CHEM 107* Fundamentals of Chemistry	4	
___ CHEM 108* Fundamentals of Chem Lab	1	
___ CHEM 245* Fund Organic Chemistry	4	
___ CHEM 246* Fund Organic Chem Lab	1	
___ LIFE 102* Attributes of Living Systems	4	
___ LIFE 103* Bio Organisms-Animal/Plant	4	
___ LIFE 205 Microbial Biology	3	
___ LIFE 206 Microbial Biology Lab	2	
___ LIFE 320* Ecology	3	
___ MATH 155* Calculus-Bio Sci I	4	
<b>-OR-</b>		
___ MATH 160* Calculus-Physical Sci I	4	
___ PH 121* General Physics I	5	
___ PH 122 General Physics II	5	
<b>-OR-</b>		
___ PH141* Physics for Sci & Eng I	5	
___ PH 142 Physics for Sci & Eng II	5	
___ STAT 301* Intro to Statistical Methods	3	
Need 6 credits of general science/mathematics electives:		
___ Science Elective		
___ Science Elective		

**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**

PHASE I	Admission Required to Enroll in PHASE II EDUC Courses	PHASE II	Passing Score on State Licensing Exam Required to Begin Student Teaching	PHASE III	PHASE IV
EDUC 275 “Schooling in the United States” 3 credits (Course includes field experiences in the P-12 school system)  EDUC 340 “Literacy and the Learner” 3 credits (Course includes field experiences in the school system)		EDUC 350 “Instruction I: Individualization and Management” 3 credits (Course is a Professional Development School (PDS) at the public junior high schools)  EDUC 386 “Practicum: Instruction I” 1 credit (Course includes field experiences aligned with EDUC 350)  EDUC 331 “Educational Technology and Assessment” 2 credits		EDUC 450 “Instruction II: Standards and Assessment” 4 credits (Course is a Professional Development School (PDS) at the public high schools)  EDUC 486E “Practicum II: Instruction II” 1 credit (Course includes field experiences aligned with EDUC 450)  EDUC 460 “Science Teaching Methods” 4 credits (Course can be taken before or during Phase III of the program)	EDUC 485B “Student Teaching” 11 credits (Course entails 15-16 weeks of full-time experience at a cooperating school site)  EDUC 493A “Seminar: Professional Relations” 1 credit (Course is taken concurrently with EDUC 485B)

**Substitution Approval:**

Student		Date	Education Advisor		Date	Director, Teacher Licensure 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.

