### Professional Education Courses – 33 credits

1. **EDUC 275* Schooling in the US** 3
2. **EDUC 340 Literacy & the Learner** 3
3. **EDUC 350 Instruction I** 3
4. **EDUC 386 Practicum-Instruction I** 1
5. **EDUC 461AΩ Science Methods I** 3
6. **EDUC 450 Instruction II** 4
7. **EDUC 486E Practicum-Instruction II** 1
8. **EDUC 461BΣ Science Methods II** 3
9. **EDUC 485B Student Teaching-Secondary** 11
10. **EDUC 493A Seminar: Prof Relations** 1

### All University Core Curriculum – 15 credits

1. **Written Communication (1A)** 3  
2. **Calculus I (1B)** 4
3. **Diversity, Equity & Inclusion (1C)** 3
4. **Advanced Writing (2)** 3

### General Science Content Courses – 34 credits

- **LIFE 102* Attributes of Living Systems** 4
- **GEOL 120* Physical Geology** 3
- **CHEM 111* General Chemistry I** 4
- **CHEM 112* General Chemistry I Lab** 1
- **LIFE 103* Bio Organisms-Animal/Plant** 4
- **CHEM 113* General Chemistry II** 3
- **CHEM 114* General Chemistry II Lab** 1
- **PH 141* Physics for Sci & Eng I** 5
- **PH 142* Physics for Sci & Eng II** 5
- **STAT 301* Intro to Statistical Methods** 3

### Physics Concentration Content Courses – 38 credits

1. **CS 150B Culture & Coding: Python** 3
2. **PH 245Ω Intro to Electronics** 3
3. **PH 314* Intro to Modern Physics** 4
4. **PH 315* Modern Physics Lab** 2
5. **PH 353* Optics & Waves** 4
6. **PH 361* Physical Thermodynamics** 3
7. **MATH 160* Calculus-Physical Sci I** 4
8. **MATH 161* Calculus-Physical Sci II** 4
9. **MATH 261* Calculus-Physical Sci III** 4

Need 7 credits of general science/mathematics electives:

1. **Science Elective**
2. **Science Elective**
3. **Science Elective**

### Notes

- **Prerequisites for calculus could account for 5 additional credits.**
- **Offered Summer Semester**
- **ΩOffered only Fall Semester**
- **ΣOffered only Spring Semester**

---

*Student’s Name: _____________________________
Email Address: ______________________________
CSU ID Number: _____________________________

**Note to the Student:** This check-sheet describes the curricular requirements for both the Bachelor of Science in Natural Sciences with a concentration in Physics 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.

---

Science (Physics) Education (revised Fall 2023)  
Page 1 of 2
### Important Coursework Requirements:
1. Students must be admitted to the Licensure Program to enroll in Phase II courses, EDUC 350, EDUC 386 and EDUC 461A.
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 2023)

**Colorado State University**

<table>
<thead>
<tr>
<th>PHASE I</th>
<th>PHASE II</th>
<th>PHASE III</th>
<th>PHASE IV</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EDUC 275</strong></td>
<td><strong>EDUC 350</strong></td>
<td><strong>EDUC 450</strong></td>
<td><strong>EDUC 485B</strong></td>
</tr>
<tr>
<td><em>Schooling in the United States</em></td>
<td><em>Instruction I: Individualization and Management</em></td>
<td><em>Instruction II: Standards and Assessment</em></td>
<td><em>Student Teaching</em></td>
</tr>
<tr>
<td>3 credits</td>
<td>3 credits</td>
<td>4 credits</td>
<td>11 credits</td>
</tr>
<tr>
<td>(Course includes field experiences in the P-12 school system)</td>
<td>(Course is a Professional Development School (PDS) at the public middle schools)</td>
<td>(Course is a Professional Development School (PDS) at the public high schools)</td>
<td>(Course entails 15-16 weeks of full-time experience at a cooperating school site)</td>
</tr>
<tr>
<td><strong>EDUC 340</strong></td>
<td><strong>EDUC 386</strong></td>
<td><strong>EDUC 486E</strong></td>
<td><strong>EDUC 493A</strong></td>
</tr>
<tr>
<td><em>Literacy and the Learner</em></td>
<td><em>Practicum: Instruction I</em></td>
<td><em>Practicum II: Instruction II</em></td>
<td><em>Seminar: Professional Relations</em></td>
</tr>
<tr>
<td>3 credits</td>
<td>1 credit</td>
<td>1 credit</td>
<td>1 credit</td>
</tr>
<tr>
<td>(Course includes field experiences in the school system)</td>
<td>(Course includes field experiences aligned with EDUC 350)</td>
<td>(Course includes field experiences aligned with EDUC 450)</td>
<td>(Course is taken concurrently with EDUC 485B)</td>
</tr>
<tr>
<td><strong>EDUC 461A</strong></td>
<td><strong>EDUC 461B</strong></td>
<td></td>
<td><strong>Successful completion of program coursework, field experiences and other requirements leads to an:</strong></td>
</tr>
<tr>
<td>3 credits</td>
<td>3 credits</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Course is a Fall only class)</td>
<td>(Course is a Spring only class)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Substitution Approval:

<table>
<thead>
<tr>
<th>Student Date</th>
<th>BSNS Advisor Date</th>
<th>Director, Teacher Preparation Program Date</th>
</tr>
</thead>
</table>

### 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.