



## Bachelor of Science: Physics (Secondary Education Certification)

**Transfer Guide - Pueblo Community College Students  
Transferring to: Colorado State University Pueblo  
Effective starting 2021**

### I. General Education Courses

	<b>Credit Hours</b>	<b>Colorado Community College Course Number and Title or gtPathways Category</b>	<b>CSU Pueblo Course (credits)</b>
Written Communication	6	ENG 121: English Composition I (GT-CO1) ENG 122, English Composition II (GT- CO2)	ENG 101, 3 credits ENG 102, 3 credits
Mathematics	5	MAT 201, Calculus I	5 credits
Arts & Humanities	9	COM 115: Public Speaking A grade of B or better is required for admission to the Teacher Education program. However, a grade of C- or better guarantees the Oral Communication requirement has been met for the AS degree. and Two gtPathways Arts & Humanities courses from two different areas ( <a href="#">GT-AH1</a> , <a href="#">GT-AH2</a> , <a href="#">GT-AH3</a> , or <a href="#">GT-AH4</a> )	COMR 103, 3 credits And 6 credits
Social & Behavioral Sciences	6	PSY 235, Human Growth and Development OR PSY 237, Child and Adolescent Psychology OR PSY 238, Child Development AND One gtPathways Social and Behavioral Sciences course from (GT-SS1, GT-SS2, or GT-SS3)	PSYCH 151, 3 credits OR PSYCH 251, 3 credits  AND 3 credits
History	3	One gtPathways History course ( <a href="#">GT-HI1</a> )	3 credits
Natural & Physical Sciences	10	PHY 211/L Physics Calculus-Based I With Lab PHY 212/L Physics Calculus-Based II With Lab	PHYS 221/L, 5 credits PHYS 222/L, 5 credits
	<b>39</b>	<b>TOTAL GEN ED CREDITS</b>	<b>39 credits</b>

### II. Required Courses

<b>Credit Hours</b>	<b>Colorado Community College Course Number and Title</b>	<b>CSU Pueblo Course (credits)</b>
5	MAT 202 Calculus II	MATH 224, 5 credits
5	CHE 111: General Chemistry I	CHEM 121L, 5 credits

5	CHE 112: General Chemistry II	CHEM 122L, 5 credits
3	EDU 221: Introduction to Education	ED 202, 3 credits
3	EDU 261, Teaching, Learning and Technology	ED 280, 3 credits
<b>21</b>	<b>TOTAL REQUIRED COURSES CREDITS</b>	<b>21 credits</b>

### III. Elective and Recommended Courses

“Recommended Courses” means courses that students are strongly encouraged, but not required, to take for preparation in this major and are listed below in priority order.

Credit Hours	Pueblo Community College Course Number and Title
0	Choose 0 credits from AS approved course list

<b>60</b>	<b>TOTAL ASSOCIATE DEGREE CREDITS</b>
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### ASSOCIATE OF ARTS OR SCIENCE DEGREE REQUIREMENTS (60 Credits):

Students should note that all required courses must be satisfactorily completed as part of the AA or AS degree at the community college and will also transfer and apply to the bachelor's degree requirements at the receiving 4-year institution. However, if you're going to transfer before completing the AA or AS degree, you may not need some of these courses. In that case, check with the receiving institution and an advisor for your options.

### GUARANTEES & LIMITATIONS

- 1. Completion of Associate's Degree:** This transfer guide identifies the courses a student needs to complete (with a C- or higher) to earn an AA or AS degree at a Colorado community/junior college in order to be able to finish the designated baccalaureate degree in no more than 60 credits. Per [Colorado Commission on Higher Education \(CCHE\) Policy I, L](#), students who complete an AA or AS degree at a Colorado community/junior college and who are admitted to a Colorado public baccalaureate institution are guaranteed the following: the full transfer and application of a minimum of 60 credits toward the baccalaureate degree requirements at the Colorado institution of higher education; completion of the lower-division component of the receiving institution's general education core curriculum; and junior standing. Course credit may be applied to major, elective or other requirements at the receiving institution's discretion. If more than 60 college-level credits are taken or the student gets lower than a C- in one or more courses at the community/junior college, then some loss of transfer credit may occur, and students may not be able to complete this baccalaureate degree in 120 credits.
- 2. Transfer Before Completing the Associate's Degree:** If the student intends to transfer prior to completing an AA or AS degree, this transfer guide should still be used to identify the courses that can most effectively prepare them for efficiently completing the designated major at the baccalaureate institution to which they are transferring. While not completing the required associate's degree eliminates the guarantees described here, gtPathways general education courses identified in Section I are guaranteed to transfer and apply to the receiving institution's gtPathways lower division general education requirements. Students are strongly encouraged to finish course sequences (such as English Comp I & II or Calculus I, II & III) before transferring.

For additional information on CCHE transfer policies and gtPathways guaranteed transfer of general education credit, visit <https://highered.colorado.gov/guaranteed-transfer-gt-pathways-general-education-curriculum-0> . To file a transfer-related complaint with the Colorado Department of Higher Education, visit <https://highered.colorado.gov/filing-student-complaint>

The chart shown below illustrates the remaining requirements to complete the BS: Physics (Secondary Education Certification) after transferring to CSU Pueblo. 60 semester credits are the maximum amount of transfer credit allowed from two-year institutions. Therefore the credits shown below **MUST** be completed at CSU Pueblo.

<b>Additional Major Core Course Requirements</b>		
<b>Course ID</b>	<b>Course Title</b>	<b>Credits</b>
ED 301	Frameworks of Teaching	4
ED 412	Teaching Diverse Learners	3
ED 444	Teaching Secondary Science	4
ED 485	Capstone Seminar in Education	1
ED 488	Secondary Student Teaching	12
RDG 435	Content Area Literacy	4
BIOL 100/L	Principles of Biology/Lab	4
BIOL 121/L	Environmental Conservations/Lab	4
GEOL 101/L	Earth Science w/Lab	4
PHYS 110	Astronomy	3
PHYS 140/L	Light, Energy, and the Atom w/Lab	4
PHYS 321	Thermodynamics	3
PHYS 322	Advanced Lab: Heat	1
PHYS 323/L	General Physics III/Lab	5
PHYS 341	Optics	3
PHYS 342	Advanced Optics Lab	1
PHYS 480	Practicum in Laboratory Instruction	1
<b>Total Transfer Credit Applied Toward BS Degree</b>		<b>60</b>
<b>Total Additional Credit Required for BS Degree</b>		<b>61</b>
<b>Total BS Degree Requirements</b>		<b>121</b>