



**Transfer Guide for Community College Students Transferring to:  
Colorado State University-Pueblo Bachelor of Science in  
Physical Science (Secondary Certification Emphasis)**

**Contact for Physics Department: 719-549-2433**  
<http://csm.csupueblo.edu/Physics/Pages/Default.aspx>

**I. General Education Courses**

\*Students who do not place into college level English Composition or Math will have to take pre-requisite Developmental Education courses.

	<b>Credit Hours</b>	<b>Community College Course Number and Title or gtPathways Category</b>	<b>CSU-Pueblo Course &amp; Credits</b>
Written Communication	6	ENG 121: English Composition I (3 cr) (GT-CO1) ENG 122: English Composition II (3 cr) (GT- CO2)	ENG 101, 3 credits ENG 102, 3 credits
Oral Communication	3	COM 115, Public Speaking (3 cr) 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	COMR 103, 3 credits
Mathematics	5	MAT 201, Calculus I	MATH 126, 5 credits
Arts & Humanities	6	Two gtPathways Arts & Humanities course from two different areas ( <u>GT-AH1</u> , <u>GT-AH2</u> , <u>GT-AH3</u> , or <u>GT-AH4</u> )	6 credits
Social & Behavioral Sciences	6	PSY 235, Human Growth and Development, (3 credits) OR PSY 238, Child Development, (3 credits) AND One gtPathways Arts & Humanities courses from ( <u>GT-AH1</u> , <u>GT-AH2</u> , <u>GT-AH3</u> , or <u>GT-AH4</u> )	PSYCH 151, 3 credits OR PSYCH 251, 3 credits AND 3 credits
History	3	One gtPathways History course ( <u>GT-HI1</u> )	3 credits
Natural & Physical Sciences	10	PHY 211, Physics Calculus-Based I With Lab PHY 212, 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</b>

**II. Required Courses**

<b>Credit Hours</b>	<b>Community College Course Number and Title</b>	<b>CSU-Pueblo Course &amp; Credits</b>
4	BIO 105, Science of Biology With Lab	BIOL 100/L, 4 credits
4	ENV 101, Environmental Science With Lab	BIOL 121/L, 4 credits
4	GEY 111, Physical Geology With Lab	GEOL 101L, 4 credits
5	MAT 202, Calculus II	MATH 224, 5 credits
4	PHY 105 Conceptual Physics With Lab	PHYS 140L, 4 credits
<b>21</b>	<b>TOTAL REQUIRED COURSES CREDITS</b>	<b>21</b>
<b>60</b>	<b>TOTAL ASSOCIATE DEGREE CREDITS</b>	

## **ASSOCIATE OF SCIENCE DEGREE REQUIREMENTS (60 Credits):**

Students should note that all required courses must be satisfactorily completed as part of the 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 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 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 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 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 <http://highered.colorado.gov/Academics/Transfers/Students.html>. To file a transfer-related complaint with the Colorado Department of Higher Education, visit <http://highered.colorado.gov/Academics/Complaints/default.html>

The chart shown below illustrates the remaining requirements to complete the BS in Physical Science (Secondary Certification Emphasis) 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 Required Physics Core Courses</b>		
PHYS 110	Astronomy	3 credits
PHYS 323/L	General Physics III With Lab	5 credits
<b>Required Chemistry Courses</b>		
CHEM 121/L	General Chemistry I With Lab	5 credits
CHEM 122/L	General Chemistry II With Lab	5 credits
CHEM 211/L OR CHEM 302/L	Introduction to Organic Chemistry With Lab OR Organic Chemistry With Lab	4 credits
CHEM 317/L	Quantitative Analysis With Lab	5 credits
CHEM 321	Physical Chemistry I	3 credits
CHEM 378	Practicum in Lab Instruction	1 credit
<b>Required Teacher Education Courses</b>		
ED 202	Foundations of Education	3 credits
ED 280	Educational Media and Technology	3 credits
ED 301	Frameworks of Teaching	4 credits
ED 412	Teaching Diverse Learners	3 credits
ED 444	Teaching Secondary Science	4 credits
ED 485	Capstone Seminar in Education	1 credit
ED 488	Secondary Student Teaching	12 credits
RDG 435	Content Area Literacy	4 credits
<b>Total A.S. Transfer Credit Applied toward B.S. Degree</b>		<b>60</b>
<b>Total Additional Credit Required for B.S. Degree</b>		<b>65</b>
<b>Total B.S. Degree Requirements</b>		<b>125</b>