



## Bachelor of Science – Biology (Secondary Education Certification)



**Transfer Guide – Pueblo Community College Student Transferring to:  
Colorado State University – Pueblo  
Effective: 2018-2019**

### 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>Pueblo Community College Course Number and Title or gtPathways Category</b>	<b>CSU – Pueblo Courses and 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	4-5	MAT 125, Survey of Calculus OR MAT 201, Calculus I	MATH 221, 4 credits OR MATH 126, 5 credits
Arts & Humanities	9	COM 115: Public Speaking 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 6 credits
Social & Behavioral Sciences	6	PSYCH 235, Human Growth & Development OR PSYCH 237: Child and Adolescent Psychology OR PYS 238, Child Development AND One gtPathways Social & Behavioral Science course from a different area ( <a href="#">GT-SS1</a> , or <a href="#">GT-SS2</a> )	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	BIO 111, General College Biology I With Lab BIO 112, General College Biology II With Lab	BIOL 181/L, 5 credits BIOL 182/L, 5 credits
	<b>39</b>	<b>TOTAL GEN ED CREDITS</b>	<b>39</b>

### II. Required Courses

<b>Credit Hours</b>	<b>Pueblo Community College Course Number and Title</b>	<b>CSU – Pueblo Courses (credits)</b>
3	EDU 221 – Introduction to Education	ED 202, 3 credits
5	MAT 202 – Calculus II	MATH 224, 5 credits
5	PHY 111 – General College Physics I with Lab’ OR PHY 211 – Calculus- Based Physics I with Lab	PHYS 201/L, 4 credits OR PHYS 221/L, 5 credits

Approval Date: 10-16-18

5	PHY 112 – General Physics II with Lab OR PHY 212 – Calculus-Based Physics II with Lab	PHYS 202/L, 4 credits OR PHYS 222/L, 5 credits
<b>18</b>	<b>TOTAL REQUIRED COURSES CREDITS</b>	<b>16-18</b>

<b>60</b>	<b>TOTAL ASSOCIATE DEGREE CREDITS</b>
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### **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: Biology (Secondary Education) 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.

#### IV. Additional Major Core Required Courses

<b>Additional Major Core Course Requirements</b>		
BIOL 201/L OR BIOL 202/L	Botany w/Lab OR Zoology w/Lab	4
BIOL 206/L OR BIOL 301/L	Intro to Microbiology OR General Microbiology	4-5
BIOL 350	Mendelian and Population Genetics	2
BIOL 351	Molecular Biology and Genetics	2
BIOL 352	Evolutionary Biology	3
BIOL 378	Laboratory in Teaching Biology	1
Upper Division Biology Field Course	Advisor Approved Upper Division Biology Field Elective/L	3-4
Upper Division Biology Electives	Advisor Approved Upper Division Biology Elective/L	3
BIOL 493	Seminar	1
CHEM 211/L OR CHEM 301/L	Introduction to Organic Chemistry w/Labe OR Organic Chemistry I w/Lab	4-5
ED 280	Educational Media and Technology	3
ED 301	Frameworks of Teaching	4
ED 412	Teaching Diverse Learners	3
ED 444	Teaching Secondary Science	4
PHYS 201/L	Principles of Physics I/Lab	4
PHYS 202/L	Principles of Physics II/Lab	4
RDG 435	Content Area Literacy	3
ED 485	Capstone Seminar in Education	1
ED 488	Student Teaching Secondary	12
<b>Total Transfer Credit Applied Toward BS Degree</b>		<b>60</b>
<b>Total Additional Credit Required for BS Degree</b>		<b>65-68</b>
<b>Total BS Degree Requirements</b>		<b>125-128</b>

*SPECIAL NOTE: Degree credit accumulation may exceed 120.*