



**Bachelor of Science – Biology  
(Cellular-Molecular Concentration)**  
**Transfer Guide – Pueblo Community College Students  
 Transferring to: Colorado State University Pueblo  
 Effective starting 2022**

**I. General 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 121/1021: English Composition I (GT-CO1) ENG 122/1022: English Composition II (GT- CO2)	ENG 101, 3 credits ENG 102, 3 credits
Mathematics	4-5	MAT 125/1400: Survey of Calculus OR MAT 201/2410: Calculus I	MATH 221, 4 credits OR MATH 126, 5 credits
Oral Communication	3	COM 115/1150: Public Speaking	CID 103, 3 credits
Arts & Humanities	6	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> )	6 credits
Social & Behavioral Sciences	6	Two gtPathways Social & Behavioral Science courses from two different areas ( <a href="#">GT-SS1</a> , <a href="#">GT-SS2</a> , or <a href="#">GT-SS3</a> )	6 credits
History	3	One gtPathways History course ( <a href="#">GT-HI1</a> )	3 credits
Natural & Physical Sciences	10	BIO 111/1111: General College Biology I With Lab BIO 112/1112: General College Biology II With Lab	BIOL 182/L, 4 credits BIOL 181/L, 4 credits
	<b>38-39</b>	<b>TOTAL GEN ED CREDITS</b>	<b>36-37</b>

**II. Required Courses**

<b>Credit Hours</b>	<b>Pueblo Community College Course Number and Title</b>	<b>CSU Pueblo Courses (credits)</b>
5	CHE 111/1111 – General College Chemistry I with Lab	CHEM 121/L, 5 credits
5	CHE 112/1112 – General College Chemistry II with Lab	CHEM 122/L, 5 credits
5	PHY 111/1111 – Physics-Algebra Based I with Lab	PHYS 201/L, 4 credits
5	PHY 112/1112 – Physics-Algebra Based II with Lab	PHYS 202/L, 4 credits
<b>20</b>	<b>TOTAL REQUIRED COURSES CREDITS</b>	<b>18</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
1-2	Choose 1-2 credits from AS Approved 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 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 \(CCHHE\) 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 CCHHE transfer policies and gtPathways guaranteed transfer of general education credit, visit <https://cdhe.colorado.gov/guaranteed-transfer-gt-pathways-general-education-curriculum>

To file a transfer-related complaint with the Colorado Department of Higher Education, visit <https://cdhe.colorado.gov/students/how-do-i-filing-a-student-complaint>

The chart shown below illustrates the remaining requirements to complete the BS: Biology (Cellular and Molecular) 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>		
BIOL 201/L OR BIOL 202/L	Botany w/Lab OR Zoology w/Lab	4
BIOL 301/L	General Microbiology	5
BIOL 350	Mendelian and Population Genetics	2
BIOL 351	Molecular Biology and Genetics	2
BIOL 351L	Adv. Genetic and Molecular Bio Lab	2
BIOL 352	Evolutionary Biology & Ecology	3
BIOL 412/L	Cellular Biology w/Lab	4
BIOL 493	Seminar	1
Biology Upper Div. Electives	Advisor Approved Upper Division Biology Electives	10
CHEM 301/L	Organic Chemistry I & Lab	5
CHEM 302/L	Organic Chemistry II & Lab	5
CHEM 311 OR CHEM 411	Survey of Biochemistry OR Biochemistry I	3
MATH 156	Intro to Statistics	3
Open Electives		11
<b>Total Transfer Credit Applied Toward BS Degree</b>		<b>60</b>
<b>Total Additional Credit Required for BS Degree</b>		<b>60</b>
<b>Total BS Degree Requirements</b>		<b>120</b>