



## Bachelor of Science – Chemistry (Environmental Chemistry)



### 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	5	MAT 201, Calculus I	MATH 126, Calculus and Analytic Geometry I, 5 credits
Arts & Humanities	9	<a href="#">COM 115: Public Speaking</a> Two gtPathways Arts & Humanities courses from two different areas (GT-AH1, GT-AH2, GT-AH3, or GT-AH4)	<a href="#">COMR 103, 3 credits</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 (GT-HI1)	3 credits
Natural & Physical Sciences	10	CHE 111 – General College Chemistry I with Lab AND CHE 112 – General College Chemistry II with Lab	CHEM 121/L, 5 credits AND CHEM 122/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>
5	BIO 111 – General College Biology I with Lab	BIOL 182/L (cellular ), 4 credits
5	MAT 202 – Calculus II	MATH 224, 5 credits
5	PHY 211 – Physics Calculus-Based I with Lab	PHYS 221/L, 5 credits
5	PHY 212 – Physics Calculus-Based II with Lab	PHYS 222/L, 5 credits
<b>20</b>	<b>TOTAL REQUIRED COURSES CREDITS</b>	<b>20</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	Choose 1 credit open elective from AS list

60	TOTAL ASSOCIATE DEGREE CREDITS
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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 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 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: Chemistry (Environmental Chemistry 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.

#### IV. Additional Major Core Required Courses

<b>Additional Major Core Course Requirements</b>		
CHEM 125/L	Environmental Science/Lab	4
CHEM 221/L	Inorganic Chemistry/Lab	4
CHEM 301/L	Organic Chemistry I/Lab	5
CHEM 302/L	Organic Chemistry II/Lab	5
CHEM 311	Survey of Biochemistry	3
CHEM 317/L	Quantitative Analysis/Lab	5
CHEM 321	Physical Chemistry I	3
CHEM 322	Physical Chemistry II	3
CHEM 419/L	Instrumental Analysis/Lab	5
CHEM 425/L	Environmental Chemistry/Lab	5
CHEM 493	Seminar	1
Approved Chemistry Electives		4
BIOL 181/L	College Biology I/Lab (organismal)	4
BIOL 301/L	General Microbiology /Lab	5
BIOL 465	Environmental Toxicology	3
Open elective	Open elective	1
<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>