



**Transfer Guide for Community College Students Transferring to:  
Colorado State University-Pueblo - Bachelor of Science in**

**Chemistry (ACS Certified Emphasis)**

**Contact for Chemistry Department: 719-549-2574**

**<http://csm.csupueblo.edu/Chemistry/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 credits) (GT-CO1)<br>ENG 122: English Composition II (3 credits) (GT-CO2)               | ENG 101, 3 credits<br>ENG 102, 3 credits       |
| Oral Communication           | 3                   | COM 115: Public Speaking (3 credits)  | COMR 103, 3 credits                            |
| Mathematics                  | 5                   | MAT 201, Calculus I (5 credits)   | MATH 126, 5 credits                            |
| Arts & Humanities            | 6                   | Two gtPathways Arts & Humanities courses from two different areas (GT-AH1, GT-AH2, GT-AH3, or GT-AH4)                     | 6 credits                                      |
| Social & Behavioral Sciences | 6                   | Two gtPathways Social & Behavioral Science courses from two different areas (GT-SS1, GT-SS2, or GT-SS3)                   | 6 credits                                      |
| History                      | 3                   | One gtPathways History course (GT-HI1)  | 3 credits                                      |
| Natural & Physical Sciences  | 10                  | CHE 111, General College Chemistry I With Lab, (5 Credits)<br>CHE 112, General College Chemistry II With Lab, (5 Credits) | CHEM 121/L, 5 credits<br>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>Community College Course Number and Title</b> | <b>CSU-Pueblo Course &amp; Credits</b> |
|---------------------|--|--|
| 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                  |
| 5                   | MAT 202, Calculus II                             | MATH 224, 5 credits                    |
| <b>15</b>           | <b>TOTAL REQUIRED COURSES CREDITS</b>            | <b>15</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.

| <b>Credit Hours</b> | <b>Community College Course Number and Title</b>  |
|---------------------|---|
| 6                   | Student chooses, with help from an advisor, from the approved electives list for the community college's AS degree. |
| <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://higherred.colorado.gov/Academics/Transfers/Students.html>. To file a transfer-related complaint with the Colorado Department of Higher Education, visit <http://higherred.colorado.gov/Academics/Complaints/default.html>

The chart shown below illustrates the remaining requirements to complete the BS in Chemistry (ACS Certified 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.

| Additional Required Chemistry Courses                        |                                      |            |
|--|--------------------------------------|------------|
| CHEM 221/L   | Inorganic Chemistry and Lab          | 4 credits  |
| CHEM 301/L   | Organic Chemistry I and Lab          | 5 credits  |
| CHEM 302/L   | Organic Chemistry II and Lab         | 5 credits  |
| CHEM 317/L   | Quantitative Analysis and Lab        | 5 credits  |
| CHEM 321   | Physical Chemistry I                 | 3 credits  |
| CHEM 322   | Physical Chemistry II                | 3 credits  |
| CHEM 419/L   | Instrumental Analysis and Lab        | 5 credits  |
| CHEM 493   | Seminar                              | 1 credit   |
| ACS Emphasis Requirements                                    |                                      |            |
| CHEM 323   | Experimental Physical Chemistry      | 2 credits  |
| CHEM 411   | Biochemistry I                       | 3 credits  |
| CHEM 421   | Advanced Inorganic Chemistry         | 3          |
| CHEM 492   | Research                             | 1 credit   |
| Electives  | Advisor Approved Chemistry Electives | 6 credits  |
| Additional Degree Requirements                               |                                      |            |
| Open Electives   | May be any approved discipline       | 14 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>60</b>  |
| <b>Total B.S. Degree Requirements</b>                        |                                      | <b>120</b> |