



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

**I. General Education Courses**

|                              | <b>Credit Hours</b> | <b>CCCS 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)<br>ENG 122/1022: English Composition II (GT- CO2)   | ENG 101, 3 credits<br>ENG 102, 3 credits  |
| Oral Communication           | 3                   | COM 115/1150: Public Speaking  | COMR 103, 3 credits   |
| Mathematics                  | 4-5                 | MAT 125/1400 Survey of Calculus<br>OR<br>MAT 201/2410, Calculus I  | MATH 221, 4 credits<br>OR<br>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                   | PSY 235/2440, Human Growth and Development<br>OR<br>PSY 237/2442, Child and Adolescent Psychology<br>OR<br>PSY 238/2441, Child Development<br>AND<br>One gtPathways Social and Behavioral Sciences course from (GT-SS1, GT-SS2, or GT-SS3) | PSYC 151, 3 credits<br>OR<br>PSYC 251, 3 credits<br>OR<br>PSYC 251, 3 credits<br>AND<br>3 credits |
| History                      | 3                   | One gtPathways History course (GT-HI1)   | 3 credits   |
| Natural & Physical Sciences  | 10                  | BIO 111/1111, General College Biology I With Lab<br>BIO 112/1112, General College Biology II With Lab  | BIOL 182/L – 4 credits<br>BIOL 181/L, 4 credits   |
|                              | <b>38-39</b>        | <b>TOTAL GEN ED CREDITS</b>  | <b>35-36</b>  |

**II. Required Courses**

| <b>Credit Hours</b> | <b>CCCS 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                 |
| 3                   | EDU 221/2211: Introduction to Education               | ED 202, 3 credits                     |
| 3                   | EDU 261/2611, Teaching, Learning and Technology       | ED 280, 3 credits                     |

|           |   |                       |
|-----------|---|-----------------------|
| 4         | BIO 201/2101, Human Anatomy & Physiology I With Lab | BIOL 223/L, 4 credits |
| 4         | GEY 111/1111 – Physical Geology                     | GEOG 101/L, 4 credits |
| <b>24</b> | <b>TOTAL REQUIRED COURSES CREDITS</b>               | <b>24</b>             |

### III. Elective and Recommended Courses

| Credit Hours | CCCS Community College Course Number and Title |
|--------------|--|
| 0            | Open electives                                 |

|              |                                       |
|--------------|---------------------------------------|
| <b>62-63</b> | <b>TOTAL ASSOCIATE DEGREE CREDITS</b> |
|--------------|---------------------------------------|

#### ASSOCIATE OF ARTS OR SCIENCE DEGREE REQUIREMENTS (60 Credits):

Students should note that all required courses must be satisfactorily completed as part of the AA or 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

- Completion of Associate's Degree:** This transfer guide identifies the courses a student needs to complete (with a C- or higher) to earn an AA or 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 AA or 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.
- Transfer Before Completing the Associate's Degree:** If the student intends to transfer prior to completing an AA or 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 <https://higher.ed.colorado.gov/guaranteed-transfer-gt-pathways-general-education-curriculum-0> . To file a transfer-related complaint with the Colorado Department of Higher Education, visit <https://higher.ed.colorado.gov/filing-student-complaint>

The chart shown below illustrates the remaining requirements to complete the BS: Biology (Secondary Education) after transferring to CSU-Pueblo. 64 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<br>OR<br>BIOL 202/L                        | Botany w/Lab<br>OR<br>Zoology w/Lab  | 4              |
| BIOL 206/L<br>OR<br>BIOL 301/L                        | Intro to Microbiology w/Lab<br>OR<br>General Microbiology w/Lab            | 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              |
| BIOL 414/L  | Vertebrate Physiology w/Lab  | 4              |
| Upper Division Biology Field Course                   | Advisor Approved Upper Division Biology Field Elective/Lab                 | 3-4            |
| Upper Division Biology Electives                      | Advisor Approved Upper Division Biology Elective/Lab                       | 3              |
| BIOL 493  | Seminar  | 1              |
| CHEM 211/L<br>OR<br>CHEM 301/L                        | Introduction to Organic Chemistry w/Lab<br>OR<br>Organic Chemistry I w/Lab | 4-5            |
| PHYS 201/L  | Principles of Physics I/Lab  | 4              |
| PHYS 202/L  | Principles of Physics II/Lab   | 4              |
| <b>Education Minor Course Requirements</b>            |  |                |
| ED 301  | Frameworks of Teaching   | 4              |
| ED 412  | Teaching Diverse Learners  | 3              |
| ED 444  | Teaching Secondary Science   | 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>66-71</b>   |
| <b>Total BS Degree Requirements</b>                   |  | <b>126-129</b> |

*SPECIAL NOTE: Degree credit accumulation for science secondary ed certification may exceed 120.*