

2 + 2 Joint Articulation Transfer Agreement

Bachelor of Science in Chemistry (Secondary Teaching Emphasis)

Colorado State University – Pueblo And Community College Of Aurora

| B.S. Requirements at CSU-Pueblo | | | A.S. Requirements at CCA | | |
|--|---|--------------|----------------------------------|--|-----------|
| Lower Division General Education Requirements | | | Equivalent Courses at CCA | | |
| Course # | Course Title | Credits | Course # | Course Title | Credits |
| ENG 101 | Composition I | 3 | ENG 121 | English Composition I | 3 |
| ENG 102 | Composition II | 3 | ENG 122 | English Composition II | 3 |
| SPCOM 103 | Speaking and Listening | 3 | COM 115 | Public Speaking | 3 |
| | *A grade of B or better is required for admission to the Teacher Education program | | | *A grade of B or better is required for admission to the Teacher Education program | |
| Humanities | Select from statewide Gen Ed Core | 6 | *Humanities | *Select from statewide Gen Ed Core *3 credits carried over to the Free Electives Section | 6 + *(3) |
| Social Science | Select from statewide Gen Ed Core | 3 | Social Science | Select from statewide Gen Ed Core | 3 |
| PSYCH 151 or PSYCH 251 | Intro Human Development or Childhood and Adolescence | 3 | PSY 235 or PSY 238 | Human Growth & Development or Child Development | 3 |
| History | Select from Statewide Gen Ed Core | 3 | History | Select from Statewide Gen Ed Core | 3 |
| MATH 126 | Calculus & Analytic Geometry I | 5 | MAT 201 | Calculus I | 5 |
| Physical and Life Sciences | | | Physical and Life Sciences | | |
| CHEM 121/L and CHEM 122/L | General Chemistry I and General Chemistry II | 5 | CHE 111 and CHE 112 | General College Chemistry I and General College Chemistry II | 5 |
| | | 5 | | | 5 |
| Subtotal | | 39 | Subtotal | | 39 |
| Required Chemistry Core Courses | | | Equivalent Courses at CCA | | |
| CHEM 121/L | General Chemistry I/Lab | (5) | CHE 111 | General College Chemistry I | (5) |
| CHEM 122/L | General Chemistry II/Lab | (5) | CHE 112 | General College Chemistry II | (5) |
| CHEM 211/L or CHEM 301/L | Intro to Organic Chemistry/Lab or Organic Chemistry I/Lab | 4 | | | |
| CHEM 221/L or CHEM 419/L | Inorganic Chemistry/Lab or Instrumental Analysis/Lab | 3 | | | |
| CHEM 311 | Survey of Biochemistry | 5 | | | |
| CHEM 317/L | Quantitative Analysis/Lab | 3 | | | |
| CHEM 321 | Physical Chemistry I | 5 | | | |
| CHEM 493 | Seminar | 1 | | | |
| Subtotal | | 19-22 | Subtotal | | 0 |
| Related Skills & Course Requirements | | | Equivalent Courses at CCA | | |
| BIOL 100/L | Principles of Biology/Lab | 4 | BIO 105 | Science of Biology | 4 |
| BIOL 121/L | Environmental Conservation/Lab | 4 | | | |

| | | | | | |
|--|--|-----------|----------------------------------|------------------------------------|------------|
| GEOL 101/L | Earth Science/Lab | 4 | GEY 111 | Physical Geology | 4 |
| MATH 126 | Calculus & Analytic Geometry I | (5) | MAT 201 | Calculus I | (5) |
| MATH 224 | Calculus & Analytic Geometry II | 5 | MAT 202 | Calculus II | 5 |
| PHYS 221/L | General Physics I/Lab | 5 | PHY 211 | Physics: Calculus-based I | 5 |
| PHYS 222/L | General Physics II/Lab | 5 | PHY 212 | Physics: Calculus-based II | 5 |
| Free Electives | May be any academic discipline | 3 | *Humanities | *Select from statewide Gen Ed Core | 3 |
| Subtotal | | 30 | Subtotal | | 18 |
| Additional Major Requirements | | | Equivalent Courses at CCA | | |
| ED 202 | Foundations of Education | 3 | EDU 221 | Introduction to Education | 3 |
| ED 280 | Educational Media and Technology | 3 | EDU 261 | Teaching, Learning & Technology | 3 |
| ED 301 | Frameworks of Teaching | 3 | | | |
| ED 412 | Teaching Diverse Learners | 3 | | | |
| ED 444 | Teaching Secondary Science | 4 | | | |
| ED 485 | Capstone Seminar in Education | 2 | | | |
| ED 488/489 | Secondary Student Teaching/Student Teaching K-12 | 12 | | | |
| RDG 435 | Content Area Literacy | 4 | | | |
| Subtotal | | 34 | Subtotal | | 3 |
| Total Credits for A.S. | | | | | 60 |
| Total Transfer Credit Accepted for A.S. | | | | | 60 |
| Total Additional Credit Required for B.S. | | | | | 62 |
| Total B.S. Degree Requirements | | | | | 122 |

Students who successfully complete this program as specified are eligible to apply for a *Destination CSU-Pueblo* scholarship.

This articulation transfer agreement replaces all previous agreements between CCA and CSU-Pueblo in Bachelor of Science in Chemistry (Secondary Education Emphasis). This agreement will be reviewed annually and revised (if necessary) as mutually agreed.

cam: 12/03/09
revised: 06/11/10