# 2 + 2 Joint Articulation Transfer Agreement

# Bachelor of Science in Chemistry (ACS Certified Emphasis)

# Colorado State University – Pueblo
# And
# Northeastern Junior College

| **B.S. Requirements at CSU-Pueblo** | | | **A.S. Requirements at NJC** | | |
|---|---|---|---|---|---|
| **Lower Division General Education Requirements** | | | **Equivalent Courses at NJC** | | |
| 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 |
| | | | *COM 115 | *Public Speaking<br>***1 credit carried over to the Free Elective Section** | 2 +*(1) |
| Humanities | Select from statewide Gen Ed Core | 9 | Humanities | Select from statewide Gen Ed Core | 9 |
| Social Science | Select from statewide Gen Ed Core | 6 | Social Science | Select from statewide Gen Ed Core | 6 |
| 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<br>and<br>CHEM 122/L | General Chemistry I<br>and<br>General Chemistry II | 5<br><br>5 | CHE 111<br>and<br>CHE 112 | General College Chemistry I<br>and<br>General College Chemistry II | 5<br><br>5 |
| **Subtotal** | | **39** | **Subtotal** | | **41** |
| **Required Chemistry Core Courses** | | | **Equivalent Courses at NJC** | | |
| 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 221/L | Inorganic Chemistry/Lab | 3 | | | |
| CHEM 301/L | Organic Chemistry I/Lab | 5 | | | |
| CHEM 302/L | Organic Chemistry II/Lab | 5 | | | |
| 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 493 | Seminar | 1 | | | |
| **Subtotal** | | **30** | **Subtotal** | | **0** |
| **ACS Emphasis** | | | **Equivalent Courses at NJC** | | |
| CHEM 323 | Experimental Physical Chemistry | 2 | | | |
| CHEM 411 | Biochemistry I | 3 | | | |
| CHEM 421 | Advanced Inorganic Chemistry | 3 | | | |
| CHEM 492 | Research | 1 | | | |
| Electives | Approved Chemistry Electives | 6 | | | |
| **Subtotal** | | **15** | **Subtotal** | | |
| **Other Required Courses** | | | **Equivalent Courses at NJC** | | |
| 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 |
| **Subtotal** | | **15** | **Subtotal** | | **15** |
| **Approved Minor** | | | | | |
| Minor | Choose advisor approved minor | 20 | Elective | TBA, NJC students are recommended to consult with the CSU-Pueblo Chemistry Dept. for approved Minor courses | 3 |
| **Subtotal** | | **20** | | | **3** |
| **Additional Degree Requirements** | | | | | |
| Free Elective | May be any academic discipline | 1 | *COM 115 | *Public Speaking<br>***1 credit may be used for Free Elective** | 1 |
| **Subtotal** | | **1** | **Subtotal** | | **1** |
| **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 NJC and CSU-Pueblo in Bachelor of Science in Chemistry (ASC Certified Emphasis). This agreement will be reviewed annually and revised (if necessary) as mutually agreed.

cam: 11/16/09
revised: 06/13/10