2 + 2 Joint Articulation Transfer Agreement

Bachelor of Science in Chemistry (ACS Certified Emphasis)

Colorado State University – Pueblo
And
Front Range Community College

B.S. Requirements at CSU-Pueblo			**A.S. Requirements at FRCC**		
Lower Division General Education Requirements			**Equivalent Courses at FRCC**		
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 ***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 and CHEM 122/L	General Chemistry I and General Chemistry II	5 5	CHE 111 and CHE 112	General College Chemistry I and General College Chemistry II	5 5
Subtotal		**39**	**Subtotal**		**41**
Required Chemistry Core Courses			**Equivalent Courses at FRCC**		
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**		
ACS Emphasis			**Equivalent Courses at FRCC**		
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 FRCC**		
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, FRCC 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 ***1 Credit may be used for Free Elective**	1
Subtotal		**1**	**Subtotal**		**1**
Total Credits for A.S.					**62**
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 FRCC 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: 12/03/09
revised: 06/12/10