

2 + 2 Joint Articulation Transfer Agreement

Bachelor of Science in Chemistry (Biochemistry 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	(3)
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	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 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		
Biochemistry Emphasis Requirements			Equivalent Courses at FRCC		
CHEM 411	Biochemistry I	3			
CHEM 412/L	Biochemistry II	5			
Elective	Approved Chemistry Elective	3			
Subtotal		11	Subtotal		
Additional Required Courses			Equivalent Courses at FRCC		
BIOL 181/L	College Biology I/Organismal Biol/Lab	4	BIO 111	General College Biology I	5
BIOL 182/L	College Biology II/Cellular Biol/Lab	4	BIO 112	General College Biology II	5
BIOL 301/L	General Microbiology	5			
BIOL 350	Mendelian & Population Genetics	2			
BIOL 351/L	Molecular Biology & Genetics	4			
BIOL 412/L	Cellular Biology/Lab	4			

MATH 126	Calculus & Analytic Geometry I	(5)	MAT 201	Calculus I (see statewide Gen Ed Core)	(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	2	*COM 115	*Public Speaking *2 credits allowed in the section	3
Subtotal		40	Subtotal		23
Total Credits for A.S.					62
Total Transfer Credit Accepted for A.S.					60
Total Additional Credit Required for B.S.					61
Total B.S. Degree Requirements					121

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 (Biochemistry Emphasis). This agreement will be reviewed annually and revised (if necessary) as mutually agreed.

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