

2 + 2 Joint Articulation Transfer Agreement (Draft)

Bachelor of Science in Biology (Cellular & Molecular Emphasis)

Colorado State University – Pueblo And Community College Of Denver

B.S. Requirements at CSU-Pueblo			A.S. Requirements at CCD		
Lower Division General Education Requirements			Equivalent Courses at CCD		
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
Humanities	Select from statewide Gen Ed Core	6	Humanities	Select from statewide Gen Ed Core *See Open Electives Section	6 + *(3)
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 221	Applied Calculus: Intuitive Approach	4	MAT 201	Survey of Calculus	5
Physical and Life Sciences			Physical and Live Sciences		
BIOL 181/L and BIOL 182/L	College Biology I/Organismal Biol/Lab and College Biology II/Cellular Biol/Lab	4 4	BIO 112 and BIO 111	General College Biology II and General College Biology I	5 5
Subtotal		36	Subtotal		39
Required Biology Courses			Equivalent Courses at CCD		
BIOL 171	Career Planning I	1			
BIOL 181/L	College Biology I/Organismal Biol/Lab	(4)	BIO 112	General College Biology II	(5)
BIOL 182/L	College Biology II/Cellular Biol/Lab	(4)	BIO 111	General College Biology I	(5)
BIOL 201/L or BIOL 202/L	Botany/Lab or Zoology/Lab	4			
BIOL 301/L	General Microbiology/Lab	5			
BIOL 350	Mendelian & Population Genetics	2			
BIOL 351	Molecular Biology & Genetics/Lab	4			
BIOL 352	Evolutionary Biology & Ecology	3			
BIOL 402	Immunology	3			
BIOL 412/L	Cellular Biology/Lab	4			
BIOL 493	Seminar	1			
Biology Electives	Upper Division Biology Electives	7			
Subtotal		34	Subtotal		0
Required Chemistry Courses			Equivalent Courses at CCD		
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 301/L	Organic Chemistry I/Lab	5			
CHEM 302/L	Organic Chemistry II/Lab	5			
CHEM 411	Biochemistry	3			
Subtotal		23	Subtotal		10

Required Math and Physics Courses			Equivalent Courses at CCD		
MATH 156	Introduction to Statistics	3	MAT 135	Introduction to Statistics	3
MATH 221	Applied Calculus: Intuitive Approach	(4)	MAT 201	Calculus I	(5)
PHYS 201/L and PHYS 202/L or PHYS 221/L and PHYS 222/L	Principles of Physics I/Lab and Principles of Physics II/Lab or General Physics I and General Physics II	4 4 5 5	PHY 111 and PHY 112 or PHYS 211 and PHYS 212	Physics: Algebra-based I and Physics: Algebra-based II or Physics: Calculus-Based I and Physics: Calculus-Based II	5 5 5 5
Subtotal		11-13			10
Additional Degree Requirements					
Open Electives	May be any academic discipline including Biology	14-16	Statewide Gen Ed Core	*Select from stateside Humanities Gen Ed Core	3
Subtotal		14-16	Subtotal		3
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 CCD and CSU-Pueblo in Bachelor of Science in Biology (Cellular & Molecular Emphasis). This agreement will be reviewed annually and revised (if necessary) as mutually agreed.

cam: 12/14/09
revised: 05/27/10
revised: 08/14/10