

2 + 2 Joint Articulation Transfer Agreement

Bachelor of Science in Biology (Cellular & Molecular Emphasis)

Colorado State University – Pueblo And Red Rocks Community College

B.S. Requirements at CSU-Pueblo			A.S. Requirements at RRCC		
Lower Division General Education Requirements			Equivalent Courses at RRCC		
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	Calculus I	5
Physical and Life Sciences					
BIOL 181/L and BIOL 182/L	College Biology I/Organismal Biol/ Lab and College Biology II/Cellular Biol/Lab	4 4	BIO 111 and BIO 112	General College Biology I and General College Biology II	5 5
Subtotal		36	Subtotal		39
Required Biology Core Courses			Equivalent Courses at RRCC		
BIOL 171	Career Planning I	1			
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 201/L or BIOL 202	Botany/Lab or Zoology/Lab	4	BIO 221 or BIO 220	Botany or General Zoology	5
BIOL 301/L	General Microbiology/Lab	5			
BIOL 350	Mendelian & Population Genetics	2			
BIOL 351	Molecular Biology & Genetics	2			
BIOL 352	Evolutionary Biology & Ecology	3			
BIOL 402	Immunology	3			
BIOL 412/L	Cellular Biology	4			
BIOL 493	Seminar	1			
Biology Electives	Advisor Approved Upper Division Electives	7			
Subtotal		32	Subtotal		5
Required Chemistry Courses			Equivalent Courses at RRCC		
CHEM 121/L	General Chemistry I/Lab	5			
CHEM 122/L	General Chemistry II/Lab	5			
CHEM 301L	Organic Chemistry I/Lab	5			
CHEM 302/L	Organic Chemistry II/Lab	5			
CHEM 411	Biochemistry	3			
Subtotal		23	Subtotal		

Required Math and Physics Courses			Equivalent Courses at RRCC		
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	Principles of Physics I/Lab and Principles of Physics II/Lab	4	PHY 111 and PHY 112	Physics: Algebra-based I and Physics: Algebra-based II	5
or PHYS 221/L	or General Physics I	4	or PHYS 211	Or Physics: Calculus-Based I	5
and PHYS 222/L	and General Physics II	5	and PHYS 212	And Physics: Calculus-Based II	5
Subtotal		11-13			13
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.					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 RRCC 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: 12/03/09
revised: 06/06/10
revised: 06/14/10