2 + 2 Joint Articulation Transfer Agreement

Bachelor of Science in Biology (Cellular & Molecular Emphasis)

Colorado State University – Pueblo
And
Otero Junior College

B.S. Requirements at CSU-Pueblo			**A.S. Requirements at OJC**		
Lower Division General Education Requirements			**Equivalent Courses at OJC**		
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 ***3 credits may be "carried over" to the Open Elective 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	Physical and Life Sciences 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 OJC**		
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/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 412/L	Cellular Biology	4			
BIOL 493	Seminar	1			
Biology Electives	Upper Division Biology Electives	7			
Subtotal		**34**	**Subtotal**		**0**
Required Chemistry Courses			**Equivalent Courses at OJC**		
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	Biochemsitry	3			
Subtotal		**23**	**Subtotal**		

Required Math and Physics Courses			**Equivalent Courses at OJC**		
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 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	*Humanities	*Select from statewide Humanities Gen Ed Core	3
Subtotal		**13**	**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 OJC 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: 08/25/09
revised: 06/13/10