2 + 2 Joint Articulation Transfer Agreement

Bachelor of Science in Biology (Bioinformatics Emphasis)

Colorado State University – Pueblo And Arapahoe Community College

B.S. Require	ements at CSU-Pueblo	A.S. Requirements at ACC Equivalent Courses at ACC			
Lower Divisi	ion General Education Requireme				
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	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					
BIOL 181/L and	College Biology I/Organismal Biol/Lab and	4	BIO 111 and	General College Biology I and	5
BIOL 182/L	College Biology II/Cellular Biol/Lab	4	BIO 112	General College Biology II	5 42
Subtotal		37	Subtotal	Subtotal	
Required Biology Core Courses			Equivalent (Courses at ACC	
BIOL 171	Career Planning I	1	_		
BIOL 181/L	College Biology I/Botany/Lab	(4)	BIO 111	General College Biology I	(5)
BIOL 182/L	College Biology II/Zoology/Lab	(4)	BIO 112	General College Biology II	(5)
BIOL 201/L	Botany/Lab	4			
or	or				
BIOL 202/L	Zoology/Lab				
BIOL 301/L	General Microbiology/Lab	5			
BIOL 350	Mendelian & Population Genetics	2			
BIOL 351	Molecular Biology & Genetics	3			
BIOL 352	Evolutionary Biology & Ecology	3			
BIOL 412/L	Cellular Biology/Lab	4			
BIOL 493	Seminar	1			
Subtotal 2		22	Subtotal		0
Bioinformatics Emphasis Course Requirements			Equivalent Courses at ACC		
BIOL 351/L	Adv Genetics & Molecular Bio Lab	2	_		
CHEM 411	Biochemistry I	3			
BIOL 450/L	Sur Genomics & Bioinformatics/Lab	3			
Electives	Advisor Approved Upper Division	5			
	Biology Elective				
Subtotal 13		13	Subtotal		
Additional Major Requirements			Equivalent (Equivalent Courses at ACC	
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 412/L	Biochemistry II/Lab	5				
CIS 171	Intro to Java Programming	4	CSC 160	Computer Science I: (JAVA)	4	
MATH 224	Calculus and Analytic Geometry II	5	MAT 202	Calculus II	5	
MATH 256	Probability for Engineers & Science	3				
MATH 356	Statistics for Engineers & Scientists	3				
PHYS 201/L	Principles of Physics I/Lab	4	PHY 111	Physics: Algebra-based I	5	
and	and		and	and		
PHYS 202/L	Principles of Physics II/Lab	4	PHY 112	Physics: Algebra-based II	5	
or	or		or	or		
PHYS 221/L	General Physics I/Lab	5	PHY 211	Physics: Calculus-based I	5	
and	and		and	and		
PHYS 222/L	General Physics II/Lab	5	PHY 212	Physics: Calculus-based II	5	
Subtotal		48-50	Subtotal		20	
Total Credits for A.S.						
Total Transfer Credit Accepted for A.S.						
Total Additional Credit Required for B.S.						
Total B.S. Degree Requirements						

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 ACC and CSU-Pueblo in Bachelor of Science in Biology (Bioinformatics Emphasis). This agreement will be reviewed annually and revised (if necessary) as mutually agreed.

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