

2 + 2 Joint Articulation Transfer Agreement

Bachelor Science in Biology/Chemistry (Double Major)

Colorado State University – Pueblo

And

Pikes Peak Community College

B.S. Requirements at CSU-Pueblo			A.S. Requirements at PPCC		
Lower Division General Education Requirements			Equivalent Courses at PPCC		
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			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		37	Subtotal		40
Required Biology Core Courses			Equivalent Courses at PPCC		
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	2			
BIOL 352	Evolutionary Biology & Ecology	3			
BIOL 412/L or BIOL 413/L or BIOL 414/L	Cellular Biology/Lab or Plant Physiology/Lab or Vertebrate Physiology/Lab	4 4 4			
BIOL/CHEM 493	Seminar	1			
Biology Elective	Advisor Approved Biology Electives	10			
Subtotal		32	Subtotal		0
Required Chemistry Core Courses			Equivalent Courses at PPCC		
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 317/1	Quantitative Analysis/Lab	5			

CHEM 321	Physical Chemistry I	3			
CHEM 322	Physical Chemistry II	3			
CHEM 419/L	Instrumental Analysis/Lab	5			
Subtotal		39	Subtotal		10
Required Support Courses					
MATH 126	Calculus & Analytic Geometry I (see statewide Gen Ed Core)	(5)	MAT 201	Calculus I (see statewide Gen Ed Core)	(5)
MATH 224	Calculus & Analytic Geometry II	5	MAT 202	Calculus II	5
PHYS 201/L and PHYS 202/L	Principles of Physics I/Lab and Principles of Physics II/Lab	4 4	PHY 111 and PHY 112	Physics: Algebra-Based I and Physics: Algebra-Based II	5 5
or PHYS 221/L and PHYS 222/L	General Physics I/Lab and General Physics II/Lab	5 5	PHY 211 and PHY 212	Physics: Calculus-Based I and Physics: Calculus-Based II	5 5
Subtotal		13-15	Subtotal		10
Total Credits for A.S.					60
Total Transfer Credit Accepted for A.S.					60
Total Additional Credit Required for B.S.					64
Total B.S. Degree Requirements					124

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

cam: 06/19/09
revised: 03/19/10