2 + 2 Joint Articulation Transfer Agreement

Bachelor of Science in Biology (Secondary Certification Emphasis)

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 PSYCH 151 or PSYCH 252	Select from statewide Gen Ed Core Intro Human Development or Childhood and Adolescence	3 3	Social Science PSY 235 or PSY 238	Select from statewide Gen Ed Core Human Growth & Development or Child Psychology	3 3
History	Select from Statewide Gen Ed Core	3	History	Select from Statewide Gen Ed Core	3
MATH 221	Applied Calculus: Intuitive Approach	4	MAT 125	Survey of Calculus	4
Physical and Life Sciences BIOL 181/L and BIOL 182/L	 College Biology I /Organismal Biol/Lab and College Biology II/Cellular/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**		**41**
Required Biology Core Courses			**Equivalent Courses at PPCC**		
BIOL 181/L	College Biology I/Organismal Biol/Lab	(4)	BIO 111	General College Biology I	(5)
BIOL 182/L	College Biology II/Cellular Biology/Lab	(4)	BIO 112	General College Biology II	(5)
BIOL 201/L or BIOL 202/L	Botany/Lab or Zoology/Lab	4			
BIOL 206/L or BIOL 301/L	Intro to Microbiology & Lab or General Microbiology & Lab	4 5	BIO 204	Microbiology	4
BIOL 223/L or BIOL 224/L or BIOL 414/L	Human Physiology & Anatomy I/Lab or Human Physiology & Anatomy II/Lab or Vertebrate Physiology/Lab	4	BIO 201 or BIO 202	Human Anatomy & Physiology I or Human Anatomy & Physiology II	4
BIOL 350	Mendelian & Population Genetics	2			
BIOL 351	Adv Molecular Biology & Genetics	2			
BIOL 352	Evolutionary Biology & Ecology	3			
BIOL 378	Laboratory in Teaching Biology	1			
Biology	Advisor Approved Upper Division Field Elective/Lab	3-4			
BIOL 493	Seminar	1			
Subtotal		**24-26**	**Subtotal**		**0**
Education Minor			**Equivalent Courses at PPCC**		
ED 202	Foundations of Education	3	EDU 221	Introduction to Education	3
ED 280	Educational Media and Technology	3	EDU 261	Teaching, Learning & Technology	3

ED 301	Frameworks of Teaching	3			
RDG 435	Content Area Literacy	4			
ED 412	Teaching Diverse Learners	3			
ED 444	Teaching Secondary Science	4			
ED 485	Capstone Seminar in Education	2			
ED 489	Secondary Student Teaching	12			
Subtotal		**34**	**Subtotal**		**6**
Additional Major Requirements			**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 #A two semester sequence in Chemistry or Physics **MUST** be included in AS degree	5
CHEM 211/L or CHEM 301/L	Intro to Organic Chemistry & Lab or Organic Chemistry I/Lab	4-5			
GEOL 101/L	Earth Science & Lab	4	GEY 111	Physical Geology	4
PHYS 201/L	Principles of Physics I & Lab	4	#PHY 111	#Physics: Algebra-based I	5
PHYS 202/L	Principles of Physics II & Lab	4	#PHY 112	#Physics: Algebra-based II #A two semester sequence in Chemistry or Physics **MUST** be included in AS degree	5
Subtotal		**26-27**	**Subtotal**		**14**
Total Credits for A.S.					**61**
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 PPCC and CSU-Pueblo in Bachelor of Science in Biology (Secondary Certification Emphasis). This agreement will be reviewed annually and revised (if necessary) as mutually agreed.

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