2 + 2 Joint Articulation Transfer Agreement (Draft)

Bachelor of Science in Biology (Secondary Certification Emphasis)

Colorado State University – Pueblo
And
Community College Of Denver

B.S. Requirements at CSU-Pueblo			**A.S. Requirements at CCD**		
Lower Division General Education Requirements			**Equivalent Courses at CCD**		
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 ***A grade of B or better is required for admission to the Teacher Education program**	3	COM 115	Public Speaking ***A grade of B or better is required for admission to the Teacher Education program**	3
Humanities	Select from statewide Gen Ed Core	6	Humanities	Select from statewide Gen Ed Core	9
Social Science PSYCH 151 or PSYCH 251	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 Development	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 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 112 and BIO 111	 General College Biology II and General College Biology I	 5 5
Subtotal		**36**	**Subtotal**		**42**
Required Biology Core Courses			**Equivalent Courses at CCD**		
BIOL 181/L	College Biology I/Organismal Biol/Lab	(4)	BIO 112	General College Biology II	(5)
BIOL 182/L	College Biology II/Cellular Biol/Lab	(4)	BIO 111	General College Biology I	(5)
BIOL 201/L or BIO 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 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**		**8**
Education Minor			**Equivalent Courses at CCD**		
ED 202	Foundations of Education	3	*EDU 221	*Introduction to Education *Recommend this course be completed at CSU-Pueblo	3
ED 280	Educational Media and 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**		**0**
Additional Major Requirements			**Equivalent Courses at CCD**		
CHEM 121/L	General Chemistry I/Lab	5	#CHE 111	General College Chemistry I # A two semester sequence in Chemistry or Physics **MUST** be included in the AS degree	5
CHEM 122/L	General Chemistry II/Lab	5	#CHE 112	General College Chemistry II	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 #A two semester sequence in Chemistry or Physics MUST be included in the AS degree	5
PHYS 202/L	Principles of Physics II & Lab	4	#PHY 112	#Physics: Algebra-based II	5
Subtotal		**26-27**	**Subtotal**		**10**
Total Credits for A.S.					**60**
Total Transfer Credit Accepted for A.S.					**60**
Total Additional Credit Required for B.S.					**66**
Total B.S. Degree Requirements					**126**

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 CCD 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: 12/03/09
revised: 05/28/10
revised: 08/14/10