

2 + 2 Joint Articulation Transfer Agreement

Bachelor of Science in Biology (Secondary Certification Emphasis)

Colorado State University – Pueblo And Northeastern Junior College

B.S. Requirements at CSU-Pueblo			A.S. Requirements at NJC		
Lower Division General Education Requirements			Equivalent Courses at NJC		
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 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			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 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 NJC		
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 BIOL 202/L	Botany/Lab or Zoology/lab	3			
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 NJC		
ED 202	Foundations of Education	3	*EDU 221	*Introduction to Education	3
ED 280	Educational Media and Technology	3	*EDU 261	*Teaching, Learning, & Technology *Recommend these courses be completed at CSU-Pueblo	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 NJC		
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	CHE 102	Introduction to Chemistry II & Lab	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 NJC 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: 11/11/09
revised: 06/13/10
revised: 08/14/10

