

2 + 2 Joint Articulation Transfer Agreement

Bachelor of Science in Physics (Secondary Education 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 115	Speaking and Listening	3	COM 115	Public Speaking	3
	*A grade of B or better is required for admission to the Teacher Education			*A grade of B or better is required for admission to the Teacher Education program	
Humanities	Select from statewide Gen Ed Core	6	Humanities	Select from statewide Gen Ed Core	9
Social Science	Select from statewide Gen Ed Core	3	Social Science	Select from statewide Gen Ed Core	3
PSYCH 151	Intro to Human Development	3	PSY 235	Human Growth & Development	3
or	or		or		
PSYCH 251	Childhood and Adolescence		PSY 238	Child Development	
History	Select from Statewide Gen Ed Core	3	History	Select from Statewide Gen Ed Core	3
MATH 126	Calculus and Analytic Geometry I	5	MAT 201	Calculus I	5
Physical and Life Sciences			Physical and Life Sciences		
CHEM 121/L	General Chemistry I	5	CHE 111	General College Chemistry I	5
and	and		and	and	
CHEM 122/L	General Chemistry II	5	CHE 112	General College Chemistry II	5
Subtotal		39	Subtotal		42
Required Physics Core Courses			Equivalent Courses at NJC		
PHYS 110	Astronomy	3	AST 101	Astronomy I	4
PHYS 140/L	Light, Energy, and the Atom/Lab	4	PHY 105	Conceptual Physics	4
PHYS 221/L	General Physics I/Lab	5	PHY 211	Physics: Calculus-based I	5
PHYS 222/L	General Physics II/Lab	5	PHY 212	Physics: Calculus-based	5
PHYS 321	Thermodynamics	3			
PHYS 322	Advanced Laboratory - Heat	1			
PHYS 323/L	General Physics III/Lab	5			
PHY 341	Optics	3			
PHYS 342	Advanced Laboratory – Optics	1			
PHYS 480	Practicum in Laboratory Instruction	1			
Subtotal		31	Subtotal		10
Related Course Requirements			Equivalent Courses at NJC		
BIOL 100/L	Principles of Biology	4	BIO 105	Science of Biology	4
BIOL 121/L	Environmental Conservation	4			
GEOL 101/L	Earth Science/Lab	4	GEY 111	Physical Geology	4
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)
MATH 126	Calculus & Analytic Geometry I	(5)	MAT 201	Calculus I	(5)

MATH 224	Calculus & Analytic Geometry II	5	MAT 202	Calculus II	5
Subtotal		17	Subtotal		5
Secondary Science Teaching Requirements			Equivalent Courses at NJC		
ED 202	Foundations of Education	3	EDU 221	Introduction to Education	3
ED 280	Educational Media & Technology	3	EDU 261	Teaching, Learning, & Technology	3
ED 301	Frameworks of Teaching	3			
ED 412	Teaching Diverse Learners	3			
ED 444	Teaching Secondary Science	4			
ED 485	Capstone Seminar in Education	2			
ED 488	Secondary Student Teaching	12			
RDG 435	Content Area Literacy	4			
Subtotal		34	Subtotal		3
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 NJC and CSU-Pueblo in Bachelor of Science in Physics (Secondary Education Emphasis). This agreement will be reviewed annually and revised (if necessary) as mutually agreed.

cam: 11/19/09
revised: 06/18/10