

2 + 2 Joint Articulation Transfer Agreement (Draft)

Bachelor of Science in Physics (Secondary Education Emphasis)

Colorado State University – Pueblo

And

Pueblo Community College

B.S. Requirements at CSU-Pueblo			A.S. Requirements at PCC		
Lower Division General Education Requirements			Equivalent Courses at PCC		
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	3	Social Science	Select from statewide Gen Ed Core	3
PSYCH 151	Intro to Human Development	3	PSY 235	Human Growth & Development	3
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	PHYS 221/L General Physics I and	5	PHY 211 and	Physics: Calculus-Based I and	5
	PHYS 222/L General Physics II or	5	PHY 212 or	Physics: Calculus-Based II or	5
	CHEM 121/L General Chemistry I and	5	CHE 111 and	General College Chemistry I and	5
	CHEM 122/L General Chemistry II or	5	CHE 112 or	General College Chemistry II or	5
	CHEM 211/L Intro to Organic Chem	4	CHE 102 or	Introduction to Chemistry II or	5
	PHYS 110 Astronomy	4	AST 101 or	Astronomy I or	5
	PHYS 140 Light, Energy, Atom	4	PHY 105 or	Conceptual Physics or	5
	BIOL 100/L	4	BIO 105 or	Science of Biology or	4
	GEOL 101/L	4	GEY 111	Physical Geology	4
	Subtotal		37-39	Subtotal	
Required Physics Core Courses			Equivalent Courses at PCC		
PHYS 110	Astronomy (see General Education Core)	4	AST 101	Astronomy I (see General Education Core)	4
PHYS 140/L	Light, Energy, and the Atom/Lab (see General Education Core)	4	PHY 105	Conceptual Physics (see General Education Core)	4
PHYS 221/L	General Physics I/Lab (see General Education Core)	5	PHY 211	Physics: Calculus-based I (see General Education Core)	5
PHYS 222/L	General Physics II/Lab (see General Education Core)	5	PHY 212	Physics: Calculus-based II (see General Education Core)	5
PHYS 323/L	General Physics III/Lab	5			
Subtotal		22	Subtotal		
Related Course Requirements			Equivalent Courses at PCC		
BIOL 100/L	Principles of Biology (see General Education Core)	4	BIO 105	Science of Biology (see General Education Core)	4
BIOL 121/L	Environmental Conservation	4			
GEOL 101/L	Earth Science/Lab (see General	4	GEY 111	Physical Geology (see General	4

	Education Core)			Education Core)	
CHEM 121/L	General Chemistry I/Lab (see General Education Core)	5	CHE 111	General College Chemistry I (see General Education Core)	5
CHEM 122/L	General Chemistry II/Lab See General Education Core)	5	CHE 112	General College Chemistry II (see General Education Core)	5
CHEM 211/L	Introduction to Organic Chemistry (see General Education Core)	4	CHE 102	Introduction to Chemistry II	5
or CHEM 301/L	Organic Chemistry I	4			
CHEM 317/L	Quantitative Analysis	5			
CHEM 321	Physical Chemistry I	3			
CHEM 378	Practicum in Lab Instruction	1			
MATH 126	Calculus & Analytic Geometry I (see General Education Core)	5	MAT 201	Calculus I (see General Education Core)	5
MATH 224	Calculus & Analytic Geometry II	5	MAT 202	Calculus II	5
Subtotal		37	Subtotal		
Secondary Science Teaching Requirements			Equivalent Courses at PCC		
ED 202	Foundations of Education	3			
ED 280	Educational Media & 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			
PSYCH 342	Educational Psychology	3			
RDG 435	Content Area Literacy	4			
Subtotal		37	Subtotal		
Total Credits for A.S.					60
Total Transfer Credit Accepted for A.S.					60
Total Additional Credit Required for B.S.					65
Total B.S. Degree Requirements					125

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 PCC 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.

 Dr. John Garvin
 President
 Pueblo Community College

 Dr. Russell Meyer
 Provost
 Colorado State University –Pueblo

Date _____

Date _____

cam: 10/27/08
 Revised: 01/30/09