2 + 2 Joint Articulation Transfer Agreement

Bachelor of Science in Physical Science (Secondary Education Emphasis)

Colorado State University – Pueblo
And
Community College Of Aurora

B.S. Requirements at CSU-Pueblo			**A.S. Requirements at CCA**		
Lower Division General Education Requirements			**Equivalent Courses at CCA**		
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 **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 to 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 126	Calculus and Analytic Geometry I	5	MAT 201	Calculus I	5
Physical and Life Sciences CHEM 121/L and CHEM 122/L	 General Chemistry I and General Chemistry II	 5 5	Physical and Life Sciences CHE 111 and CHE 112	 General College Chemistry I and General College Chemistry II	 5 5
Subtotal		**39**	**Subtotal**		**42**
Required Physics Core Courses			**Equivalent Courses at CCA**		
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 323/L	General Physics III/Lab	5			
Subtotal		**22**	**Subtotal**		**10**
Related Course Requirements			**Equivalent Courses at CCA**		
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	(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			
CHEM 317/L	Quantitative Analysis/Lab	5			
CHEM 321	Physical Chemistry I	3			
CHEM 378	Practicum in Lab Instruction	1			

MATH 126	Calculus & Analytic Geometry I (see Gen Ed Core)	(5)	MAT 201	Calculus I (see Gen Ed Core)	(5)
MATH 224	Calculus & Analytic Geometry II	5	MAT 202	Calculus II	5
Subtotal		**30**	**Subtotal**		**5**
Secondary Science Teaching Requirements			**Equivalent Courses at CCA**		
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.					**68**
Total B.S. Degree Requirements					**128**

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 CCA 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: 11/13/09
revised: 06/17/10