

2 + 2 Joint Articulation Transfer Agreement

Bachelor of Science in Physics (Secondary Education 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 115	Speaking and Listening *A grade of B or better is required for admission to the Teaching 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	Select from statewide Gen Ed Core	3	Social Science	Select from statewide Gen Ed Core	3
PSYCH 151 or PSYCH 251	Intro to Human Development or Childhood and Adolescence	3	PSY 235 or PSY 238	Human Growth & Development or Child 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			Physical and Life Sciences		
CHEM 121/L and CHEM 122/L	General Chemistry and General Chemistry II	5	CHE 111 and CHE 112	General College Chemistry I and General College Chemistry II	5
Subtotal		39	Subtotal		42
Required Physics Core Courses			Equivalent Courses at CCD		
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 CCD		
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 CCD		
ED 202	Foundations of Education	3	EDU 221	Introduction to 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			
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 CCD 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: 12/14/09
revised: 06/02/10