

2 + 2 Joint Articulation Transfer Agreement

Bachelor of Science in Physics (Biophysics or Chemical Physics 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
			*COM 115	*Public Speaking *See Open Electives Section	(3)
Humanities	Select from statewide Gen Ed Core	9	Humanities	Select from statewide Gen Ed Core	9
Social Science	Select from statewide Gen Ed Core	6	Social Science	Select from statewide Gen Ed Core	6
History	Select from Statewide Gen Ed Core	3	History	Select from Statewide Gen Ed Core	3
MATH 126	Calculus & 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 I and General Chemistry II	5	CHE 111 and CHE 112	General College Chemistry I and General College Chemistry II	5
		5			5
Subtotal		39	Subtotal		39
Required Physics Core Courses			Equivalent Courses at CCD		
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 II	5
PHYS 301	Theoretical Mechanics	4			
PHYS 321	Thermodynamics	3			
PHYS 322	Advanced Laboratory – Heat	1			
PHYS 323/L	General Physics III/Lab	5			
PHYS 341 and PHYS 342 or PHYS 431	Optics and Advanced Laboratory – Optics or Electricity & Magnetism	4			
PHYS 441	Quantum Mechanics	4			
PHYS 492	Research	1			
Subtotal		32	Subtotal		10
Additional Major Requirements			Equivalent Courses at CCD		
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 242 or EN 103	MATLAB Programming and Problem Solving for Engineers	4			
		3			
MATH 126	Calculus & Analytic Geometry I	(5)	MAT 201	Calculus I	(5)
MATH 207	Matrix & Vector Algebra w/App	2			
MATH 224	Calculus & Analytic Geometry II	5	MAT 202	Calculus II	5

MATH 325	Intermediate Calculus	3			
MATH 337	Differential Equations I	3			
Electives	Approved Biology Electives or Approved Chemistry Electives And Approved Open Electives	32 or 22 and 10-11	*COM 115	*Public Speaking *3 credits carried over from the Gen Ed Core	3
			A.S. Electives	Choose 3 credits from the A.S. approved list to complete the A.S. Degree	3
Subtotal		49-50	Subtotal		11
Total Credits for A.S.					60
Total Transfer Credit Accepted for A.S.					60
Total Additional Credit Required for B.S.					60
Total B.S. Degree Requirements					120

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 (Biophysics Emphasis). This agreement will be reviewed annually and revised (if necessary) as mutually agreed.

cam: 11/13/09
revised: 06/02/10