

2 + 2 Joint Articulation Transfer Agreement

Bachelor of Science in Physics (General Physics Emphasis)

Colorado State University – Pueblo And Arapahoe Community College

B.S. Requirements at CSU-Pueblo			A.S. Requirements at ACC		
Lower Division General Education Requirements			Equivalent Courses at ACC		
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		6	Social Science		6
History	Select from Statewide Gen Ed Core	3	History	Select from Statewide Gen Ed Core	3
MATH 126	Calculus & Analytic Geometry	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 5	CHE 111 and CHE 112	General College Chemistry I and General College Chemistry II	5 5
Subtotal		39	Subtotal		39
Required Physics Core Courses			Equivalent Courses at ACC		
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	Optics	3			
PHYS 342	Advanced Laboratory – Optics	1			
PHYS 431	Electricity & Magnetism	4			
PHYS 432	Adv Lab Electricity & Magnetism	1			
PHYS 441	Quantum Mechanics	4			
PHYS 480	Practicum in Lab Instruction	1			
PHYS 492	Research	1			
PHYS 493	Seminar	1			
PHYS 499	Thesis Research	1			
Subtotal		40	Subtotal		10
Additional Major Requirements			Equivalent Courses at ACC		
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 or Problem Solving for Engineers	4 3			
MATH 126	Calculus & Analytic Geometry I	(5)	MAT 201	Calculus I (see Gen Ed Core)	(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			
MATH 338	Differential Equations II	3			
Elective	Approved Upper Division Math Elective	3-4			
Subtotal		22-24	Subtotal		5
Additional Degree Requirements					
Open Electives	May be any Academic Discipline	17-19	*COM 115	*Public Speaking *3 credits carried over from the Gen Ed Core	3
			A.S. Electives	Choose additional credit from the A.S. approved list to complete A.S. Degree	3
Subtotal		17-19	Subtotal		6
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 ACC and CSU-Pueblo in Bachelor of Science in Physics (General Physics Emphasis). This agreement will be reviewed annually and revised (if necessary) as mutually agreed.

cam: 11/13/09
revised: 06/16/10