

2 + 2 Joint Articulation Transfer Agreement

Bachelor of Science in Mathematics/Physics (Double Major)

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	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 and Analytic Geometry I	5	MAT 201	Calculus I	5
Physical and Life Sciences CHE 121/L and CHE 122/L	General Chemistry I/Lab and General Chemistry II/Lab	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		39
Required Mathematics Courses			Equivalent Courses at ACC		
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 307	Intro to Linear Algebra	4			
MATH 325	Intermediate Calculus	3	MAT 203	Calculus III	4
MATH 327	Abstract Algebra	4			
MATH 337	Differential Equations I	3	MAT 265	Differential Equations	3
MATH 338	Differential Equations II	3			
MATH 350 and MATH 356 or MATH 550	Probability and Stats for Engineers & Scientists or Statistical Methods	3 3			
MATH 421	Advanced Calculus I	4			
Subtotal		34	Subtotal		9
Required Physics Courses			Equivalent Courses at ACC		
PHYS 221/L	General Physics I/Lab	5	PHY 111	Physics: Calculus-Based I	5
PHYS 222/L	General Physics II/L	5	PHY 112	Physics: Calculus-Based II	5
PHYS 301	Theoretical Mechanics	4			
PHYS 323/L	General Physics III/L	5			
PHYS 321/322	Thermodynamics/Lab	4			
PHYS 431/432	Electricity & Magnetism/Lab	5			
PHYS 441	Quantum Mechanics	4			
PHYS 480	Practicum in Lab Instruction	1			
PHYS 493	Seminar	1			

Subtotal		34	Subtotal		10
Additional Related Courses					
MATH 425 or PHYS 341/342	Complex Variables or Optics/Adv. Laboratory-Optics	3 4			
PHYS 492 or MATH 492	Research or Research	1			
Computer Programming	Advisor Approved CIS course	3			
Open Electives	May be any discipline	5	COM 115	Public Speaking	3
Subtotal		12-13	Subtotal		3
Total Credits for A.S.					61
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 Math/Physics Double Major. This agreement will be reviewed annually and revised (if necessary) as mutually agreed.

cam: 11/12/09
revised: 06/16/10