

2 + 2 Joint Articulation Transfer Agreement

Bachelor of Science in Engineering (Specialization in Mechatronics)

Colorado State University – Pueblo And Arapahoe Community College

B.S. Requirements at CSU-Pueblo			A.G.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
SPCOM 103	Speaking and Speaking	3	COM 115	Public Speaking	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	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
PHYS 221/L	General Physics I and Lab	5	PHY 211	Physics: Calculus Based I	5
PHYS 222/I	General Physics II and Lab	5	PHY 212	Physics: Calculus Based II	5
Subtotal		39	Subtotal		42
Additional Math Requirements			Equivalent Courses at ACC		
MATH 207	Matrix and Vector Algebra with Applications	2			
MATH 224	Calculus & Analytic Geometry II	5	MATH 202	Calculus II	5
MATH 337	Differential Equations I	3	*MAT 265	*Differential Equations *Course is equivalent in academic content but may not be counted for Upper Division credit	3
Subtotal		10	Subtotal		8
Major Course Requirements (Lower Division)			Equivalent Courses at ACC		
EN 101	Introduction to Engineering	2	CIS 118	Introduction to PC Applications	3
EN 103	Problem Solving for Engineers	3	CSC 116	Logic and Program Design	3
EN 107	Engineering Graphics	2	EGG 101	Engineering Graphics	3
EN 211	Engineering Mechanics I	3	EGG 211	Engineering Mechanics – Statics	3
EN 212	Engineering Mechanics II	3	EGG 212	Engineering Mechanics – Dynamics	3
EN 231/L	Circuit Analysis and Lab	5			
EN 260	Basic Electronics	2			
EN 263	Electromechanical Devices	3			
Subtotal		23	Subtotal		12
Major Course Requirements (Upper Division)			Equivalent Courses at ACC		
EN 321	Thermodynamics	3			
EN 324/L	Materials Science Engr & Lab	4			
EN 343	Engineering Economy	3			
EN 360	Control Systems I	3			
EN 361	Digital Electronics	4			
EN 362	Introduction to Mechatronics	3			
EN 363	Virtual Machine Design	3			
EN 365	Stochastic Systems Engineering	4			

EN 430	Project Planning and Control	3			
EN 441	Manufacturing Processes	4			
EN 443	Quality Control & Reliability	3			
EN 460	Control Systems II	3			
EN 462	Industrial Robotics	3			
EN 473	Computer Integrated Manufacturing	3			
EN 488	Engineering Design Project	3			
EN 493	Senior Seminar	2			
Subtotal		51	Subtotal		0
EN	Advisor Approved Technical Electives	3			
Math/Science Elective	Advisor Approved Electives	3			
Subtotal		6	Subtotal		
Total Credit Required for A.G.S.					62
Total Transfer Credit Accepted for A.G.S.					60
Total Additional Credit Required for B.S.					69
Total B.S. Degree Requirements					129

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 Engineering (Specialization in Mechatronics). This agreement will be reviewed annually and revised (if necessary) as mutually agreed.

cam: 12/04/09
revised: 06/16/10