

## 2 + 2 Joint Articulation Transfer Agreement

### Bachelor of Science in Mathematics (Secondary Certification Emphasis)

#### Colorado State University – Pueblo And Arapahoe Community College

<b>B.S. Requirements at CSU-Pueblo</b>			<b>A.S. Requirements at ACC</b>		
<b>Lower Division General Education Requirements</b>			<b>Equivalent Courses at ACC</b>		
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 Listening	3	COM 115	Public Speaking	3
	<b>*A grade of B or better is required for Admission to the Teacher Education program</b>			<b>*A grade of B or better is required for admission to the Teacher Education program</b>	
Humanities	Select from statewide Gen Ed Core	6	*Humanities	*Select from statewide Gen Ed Core	6 + *(3)
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 Child Development	3
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		5	Physical and Life Sciences		
CHEM 121/L and CHEM 122/L	General Chemistry I/Lab and General Chemistry II/Lab	5	CHE 111 and CHE 112	General College Chemistry I and General College Chemistry II	5
or PHYS 221/L and PHYS 222/L	General Physics I/Lab and General Physics II/Lab	5	or PHY 211 and PHY 212	Physics: Calculus-Based I with Lab and Physics: Calculus-Based II with Lab	5
<b>Subtotal</b>		<b>39</b>	<b>Subtotal</b>		<b>39</b>
<b>Required Mathematics Major Courses</b>			<b>Equivalent Courses at ACC</b>		
MATH 126	Calculus & Analytic Geometry I (see Gen Ed Core)	(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 307	Intro to Linear Algebra	4			
MATH 325	Intermediate Calculus	3	*MAT 203	*Calculus III <b>*Course is academically equivalent, but cannot be counted for Upper Division credit</b>	4
MATH 327	Introduction to Algebraic Systems	4			
MATH 330	Intro to Higher Geometry	3			
MATH 350	Probability	3			
MATH 356	Statistics for Engineers & Scientists	3			
MATH 419	Number Theory	3			
MATH 421	Advanced Calculus I	4			

MATH 463	History of Mathematics	3			
MATH 477	Material & Techniques of Teaching Secondary School Math	4			
<b>Subtotal</b>		<b>41</b>	<b>Subtotal</b>		<b>9</b>
<b>Education Minor Course Requirements</b>			<b>Equivalent Courses at ACC</b>		
ED 202	Foundations of Education	3	EDU 221	Introduction to Education	3
ED 280	Educational Media and Technology	3	EDU 261	Teaching, Learning, & Technology	3
ED 301	Frameworks of Teaching	3			
ED 412	Teaching Diverse Learners	3			
ED 485	Capstone Seminar in Education	2			
ED 488	Secondary Student Teaching	12			
RDG 435	Content Area Literacy	4			
MATH 477	Materials & Tech Teaching Sec. Ed.	4			
<b>Subtotal</b>		<b>30</b>	<b>Subtotal</b>		<b>6</b>
<b>Additional Major Requirements</b>			<b>Equivalent Courses at ACC</b>		
Lab Science Sequence	See Gen Ed Core	(10)	Lab Science Sequence	See Gen Ed Core	(10)
Comp Prog	Computer Programming	4			
Open Elective	May be any Academic Discipline	6	*Humanities	*Statewide Gen Ed Humanities Core	3
				Choose 3 additional credits from the A.A. approved list to completed the A.A. Degree	3
<b>Subtotal</b>		<b>10</b>	<b>Subtotal</b>		<b>6</b>
<b>Total Credits for A.S.</b>					<b>60</b>
<b>Total Transfer Credit Accepted for A.S.</b>					<b>60</b>
<b>Total Additional Credit Required for B.S.</b>					<b>60</b>
<b>Total B.S. Degree Requirements</b>					<b>120</b>

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

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