Transfer Guide for Community College Students Transferring to:
Colorado State University-Pueblo Bachelor of Science in

Math (Secondary Certification Emphasis)

Contact for Math Department: 719-549-2433
http://csm.csupueblo.edu/Mathematics/Pages/Default.aspx

I. General Education Courses

*Students who do not place into college level English Composition or Math will have to take pre-requisite Developmental Education courses.

	Credit Hours	Community College Course Number and Title or gtPathways Category	CSU-Pueblo Course & Credits
Written Communication	6	ENG 121: English Composition I (3 cr) (GT-CO1) ENG 122: English Composition II (3 cr) (GT- CO2)	ENG 101, 3 credits ENG 102, 3 credits
Oral Communication	3	COM 115, Public Speaking (3 cr) A grade of B or better is required for admission to the Teacher Education program; however, a grade of C- or better guarantees the Oral Communication requirement has been met for the AS degree	COMR 103, 3 credits
Mathematics	5	MAT 201, Calculus I	MATH 126, 5 credits
Arts & Humanities	6	Two gtPathways Arts & Humanities courses from two different areas (GT-AH1, GT-AH2, GT-AH3, or GT-AH4)	6 credits
Social & Behavioral Sciences	6	PSY 235, Human Growth and Development OR PSY 238, Child Development AND One gtPathways Social & Behavioral Science courses from (GT-SS1, GT-SS2, or GT-SS3)	PSYCH 151, 3 credits OR PSYCH 251, 3 credits AND 3 credits
History	3	One gtPathways History course (GT-HI1)	3 credits
Natural & Physical Sciences	10	CHE 111, General Chemistry I With Lab AND CHE 112, General Chemistry II With Lab OR PHY 211, Physics: Calculus-Based I With Lab AND PHY 212, Physics: Calculus-Based II With Lab	CHEM 121/L, 5 credits AND CHEM 121/L, 5 credits OR PHYS 221/L, 5 credits AND PHYS 222/L, 5 credits
	39	**TOTAL GEN ED CREDITS**	**39**

II. Required Courses

Credit Hours	Community College Course Number and Title	CSU-Pueblo Course & Credits
5	MAT 202, Calculus II	MATH 224, 5 credits
5	MAT 203, Calculus III	MATH 325, 3 credits AND 2 credits elective

3	MAT 255, Linear Algebra	MATH 207, 2 credits AND 1 credit elective
3	EDU 221, Introduction to Education	ED 202, 3 credits
3	EDU 261, Teaching, Learning, and Technology	ED 280, 3 credits
19	**TOTAL REQUIRED COURSES CREDITS** ***2 credits from MAT 203 and 1 credit from MAT 255 will Open Electives**	**19**

III. Elective and Recommended Courses

"Recommended Courses" means courses that students are strongly encouraged, but not required, to take for preparation in this major and are listed below in priority order.

Credit Hours	Community College Course Number and Title
2	Student chooses, with help from an advisor, from the approved electives list for the community college's AS degree. ***These 2 credit will apply to the Open Electives**
60	**TOTAL ASSOCIATE DEGREE CREDITS**

ASSOCIATE OFSCIENCE DEGREE REQUIREMENTS (60 Credits):
Students should note that all required courses must be satisfactorily completed as part of the AS degree at the community college and will also transfer and apply to the bachelor's degree requirements at the receiving 4-year institution. However, if you're going to transfer before completing the AS degree, you may not need some of these courses. In that case, check with the receiving institution and an advisor for your options.

GUARANTEES & LIMITATIONS

1. **Completion of Associate's Degree:** This transfer guide identifies the courses a student needs to complete (with a C- or higher) to earn an AS degree at a Colorado community/junior college in order to be able to finish the designated baccalaureate degree in no more than 60 credits. Per Colorado Commission on Higher Education (CCHE) Policy I, L, students who complete an AS degree at a Colorado community/junior college and who are admitted to a Colorado public baccalaureate institution are guaranteed the following: the full transfer and application of a minimum of 60 credits toward the baccalaureate degree requirements at the Colorado institution of higher education; completion of the lower-division component of the receiving institution's general education core curriculum; and junior standing. Course credit may be applied to major, elective or other requirements at the receiving institution's discretion. If more than 60 college-level credits are taken or the student gets lower than a C- in one or more courses at the community/junior college, then some loss of transfer credit may occur, and students may not be able to complete this baccalaureate degree in 120 credits.

2. **Transfer Before Completing the Associate's Degree:** If the student intends to transfer prior to completing an AS degree, this transfer guide should still be used to identify the courses that can most effectively prepare them for efficiently completing the designated major at the baccalaureate institution to which they are transferring. While not completing the required associate's degree eliminates the guarantees described here, gtPathways general education courses identified in Section I are guaranteed to transfer and apply to the receiving institution's gtPathways lower division general education requirements. Students are strongly encouraged to finish course sequences (such as English Comp I & II or Calculus I, II & III) before transferring.

For additional information on CCHE transfer policies and gtPathways guaranteed transfer of general education credit, visit http://highered.colorado.gov/Academics/Transfers/Students.html. To file a transfer-related complaint with the Colorado Department of Higher Education, visit http://highered.colorado.gov/Academics/Complaints/default.html

The chart shown below illustrates the remaining requirements to complete the BS in Math (Secondary Certification Emphasis) after transferring to CSU-Pueblo. 60 semester credits are the maximum amount of transfer credit allowed from two-year institutions. Therefore the credits shown below ***MUST*** be completed at CSU-Pueblo

Additional Math Major Requirements		
MATH 307	Introduction to Linear Algebra	4 credits
MATH 319	Number Theory	3 credits
MATH 330	Introduction to Higher Geometry	3 credits
MATH 350	Probability	3 credits
MATH 356	Statistics for Engineers & Scientists	3 credits
MATH 421	Introduction to Analysis	4 credits
MATH 427	Abstract Algebra	4 credits
MATH 463	History of Mathematics	3 credits
MATH 477	Materials & Techniques of Teaching Secondary School Math	4 credits
Additional Required Teacher Education Courses		
ED 301	Frameworks of Teaching	4 credits
ED 412	Teaching Diverse Learners	3 credits
ED 485	Capstone Seminar	1 credit
ED 488	Secondary Student Teaching	12 credits
RDG 435	Content Area Literacy	4 credits
Additional Degree Requirements		
MATH 242	Introduction to Computation (Computer Programming Requirement)	4 credits
Open Electives	Electives from Approved Discipline	1 credit
Total A.S. Transfer Credit Applied Toward B.S.		**60 credits**
Total Additional Credit Required from B.S. Degree		**60 credits**
Total B.S. Degree Requirements		**120 credits**