

Bachelor of Science: Civil Engineering
Transfer Guide – Pikes Peak State College AES Students
Transferring to: Colorado State University Pueblo
Effective Starting 2024

I. General Education Courses

	Credit Hours	PPSC Course Number and Title or gtPathways Category	CSU Pueblo Course (credits)
Written Communication	3	ENG 1021: English Composition I (GT-CO1)	ENG 101, 3 cr
Mathematics	5	MAT 2410: Calculus I (GT-MA1)	MATH 126, 5 cr
Arts & Humanities	3	One gtPathways Arts & Humanities course from (GT-AH1 , GT-AH2 , GT-AH3 , or GT-AH4);	3 cr
Social & Behavioral Sciences	3	One gtPathways Social & Behavioral Science course from (GT-SS1 , GT-SS2 , or GT-SS3)	3 cr
Natural & Physical Sciences	5	PHY 2111 – Physics I-Calc Based w/ Lab (GT-SC1)	PHYS 221/L, 5 cr
	5	CHE 1111 Gen College Chemistry I w/Lab (GT-SC1)	CHEM 121/L, 5 cr
	24		24 credits

II. Required Courses

Credit Hours	PPSC Course Number and Title	CSU Pueblo Course (credits)
5	MAT 2420– Calculus II (GT-MA1)	MATH 224, 5cr
4	MAT 2430 Calculus III (GT-MA1) OR MAT 2431 Calculus III with Engineering Apps OR MAT 2562 Differential Equations with Linear Algebra	Fills requirement for MATH 337, 3cr
4	MAT 2560– Differential Equations (GT-MA1) OR MAT 2540: Linear Algebra	Fills requirement for MATH 207, 3cr
4-5	Science elective GEY or BIO course (GT-SC1 or GT-SC2) (No Chem or Physics)	Science elective 3-4cr
3	EGT 1110 Intro Design/Engineering Apps OR EGG 1040 - Engineering Projects	Fills requirement for CE 101, 2cr
4	EGG 1060 Engineering Computing	EN 103, 3cr
3	EGG 2011 Engineering Mechanics I - Statics	EN 211, 3cr
3	EGG 2012 Engineering Mechanics II - Dynamics	EN 212, 3cr
3	AEC 1520 Construction Materials and Systems	CET 207, 3cr
3	CAD: 1101: Computer Aided Drafting I OR EGT 1101: Mechanical Design I	CET 115, 3cr
36-37	Total Required	31-32 credits

II. Elective Courses – choose 3 credits from the following

3	EGG 2030 Mechanics of Solids	CE 233, 3cr
3	CAD 1104 CAD for Architecture	
3	CON 1047 Field Engineering I	
3	CAD 2220 Revit	
3	CAD 1102 Computer Aided Drafting/ 2D II	
3	EGG 2020 Thermodynamics	
3	TOTAL ELECTIVE CREDITS	3 cr

64	TOTAL ASSOCIATE'S DEGREE CREDITS
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ASSOCIATE DEGREE REQUIREMENTS (64 Credits):

Students should note that all required courses must be satisfactorily completed as part of the AES 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 AES 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

- Completion of Associate's Degree:** This transfer guide identifies the courses a student needs to complete (with a C- or higher) to earn an AES degree at a Colorado community/junior college in order to be able to finish the designated baccalaureate degree. Per [Colorado Commission on Higher Education \(CCHE\) Policy I, L](#), students who complete an AES 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 64 credits toward the baccalaureate degree requirements at the Colorado institution of higher education; and junior standing. Course credit may be applied to major, elective or other requirements at the receiving institution's discretion. If more than 64 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 133 credits.
- Transfer Before Completing the Associate's Degree:** If the student intends to transfer prior to completing an AES 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 when possible.

For additional information on CCHE transfer policies and gtPathways guaranteed transfer of general education credit, visit <https://higher.ed.colorado.gov/guaranteed-transfer-gt-pathways-general-education-curriculum-0> . To file a transfer-related complaint with the Colorado Department of Higher Education, visit <https://higher.ed.colorado.gov/filing-student-complaint>

The chart shown below illustrates the remaining requirements to complete the BS in Civil Engineering after transferring AES to CSU Pueblo. 64 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.

I. General Ed completion

Written Communication	ENG 102 English Composition II (or other GT- CO2)	3 cr
Humanities	CID 103 Speaking & Listening	3 cr
	One gtPathways Arts & Humanities (GT-AH1 , GT-AH2 , GT-AH3 , or GT-AH4)	3cr
Social & Behavioral Sciences	One gtPathways Social & Behavioral Science course from (GT-SS1 , GT-SS2 , or GT-SS3)	3 cr
History	One gtPathways History course (GT-HI1)	3 cr
	Total credits	15

Major Core Courses		
Course Prefix	Course Name	Credits
CET 102	Surveying I	3
CET 116	Civil Drafting II	3
CET 208	Concrete & Asphalt Materials	3
CE 321	Geotechnical Engineering I	3
CE 331	Structural Analysis	3
CE 341	Introduction to Transportation Engineering	3
CE 351	Hydraulics with Lab	3
CE 361	Construction Engineering	4
CE 404	Structural Steel Design	3
CE 405	Reinforced Concrete Design	3
CE 412	Hydrology	3
CE 415	Water and Sewer Systems Design	3
CE 421	Geotechnical Engineering II	3
CE 473	Highway Design	3
CE 487	Senior Project Seminar	1
CE 489	Senior Project	3
EN 375	Structural Steel Design	3
Technical Electives	Approved Upper Division Technical Electives	4
Total AES Transfer Credit Applied Toward BS Degree		64
General Education completion for BS		15
Additional Major Credit Required for BS Degree		54
Total BS Degree Requirements		133