



COLORADO STATE UNIVERSITY

PRE-ENGINEERING TRANSFER AGREEMENT FOR COMMUNITY COLLEGE STUDENTS

This agreement is designed for Colorado community college students planning to transfer to Colorado State University for a Bachelor's of Science degree in one of the following majors:

- B.S. in Chemical & Biological Engineering
- B.S. in Chemical & Biological Engineering and Biomedical Engineering
- B.S. in Civil Engineering, Civil Engineering concentration
- B.S. in Computer Engineering
- B.S. in Electrical Engineering and Biomedical Engineering
- B.S. in Electrical Engineering, Electrical Engineering concentration
- B.S. in Environmental Engineering, Environmental Engineering concentration
- B.S. in Engineering Science, Engineering Physics concentration
- B.S. in Mechanical Engineering
- B.S. in Mechanical Engineering and Biomedical Engineering

This agreement identifies the community college courses that will apply to each major area and the corresponding baccalaureate degree.

If you plan to complete an engineering bachelor's degree, recognize that:

1. In general, it is best to begin your engineering courses as soon as possible at CSU, due to the heavy sequencing requirements of the engineering programs.
2. It is strongly recommended that you contact an admissions counselor at CSU to clarify course work appropriate for your intended engineering major and to identify the community college courses and GPA necessary to meet the competitive admission requirements. Certain engineering departments may also be able to work directly with you on appropriate transfer coursework and academic plans (i.e. Biomedical, Computer and Electrical)
3. The courses outlined below may count towards a bachelor's degree in Engineering from CSU. Transfer hours beyond the credits below are not guaranteed to apply toward the engineering degree. Any coursework taken beyond the recommendations below are not guaranteed to apply toward the engineering degree.

Mathematics Skills: For community college students with strong math skills who are ready for Calculus I, transfer to the 4-year institution is recommended after completion of the courses below. Students who are not ready for Calculus I should consider working toward the associate degree while working with both 2-yr and 4-yr advisors on the selection of courses appropriate for transfer into an engineering program. Completion of the [gtPathways general education curriculum](#) will enhance transferability should the student switch from an engineering track to a liberal arts track.

Transfer Recommendations: A bachelor's degree in any engineering major is a demanding and prescribed curriculum that may take an additional 6-10 semesters of coursework independent of the credit hours transferred from the community college. To graduate in a 4-5 year overall time frame, it is important that engineering students begin taking engineering courses no later than the second year of the four-or-five year curriculum. Community college students within commuting distance of the 4-year institution should inquire about the possibility of concurrent registration prior to transfer.

Students who wish to continue their education at the community college beyond the number of credits in the pre-engineering program below should explore with both 2-yr and 4-yr advisors how their graduation timeline, COF stipend, and financial aid will be affected.

Colorado State University Pre-Engineering Transfer Agreement

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Transferring Tips: If you are following this transfer agreement please note that this curriculum neither fulfills the gtPathways general education curriculum nor the associate degree requirements at the community college. This agreement is being provided to give you some direction on courses that might be beneficial in transfer to the College of Engineering at CSU. Please review the Engineering competitive major requirements for Admissions (see Admissions Requirements on page 4). If you meet these minimum requirements for admission to Engineering we highly recommend that you APPLY to CSU.

Guarantees and Limitations: Students who successfully complete (minimum grade and GPA requirements) the prescribed pre-engineering curriculum:

- are eligible to apply for admission directly into an engineering program at the 4-year institution
- are responsible for meeting all admission requirements at the 4-year institution
- are not guaranteed admission to the engineering program at the 4-year institution
- are guaranteed, once admitted, application of the transfer hours below to either lower division general education, course work required for the engineering major, or elective credit
- must consult with the 4-year institution's engineering program to utilize AP, IB, or CLEP credits
- must consult with the 4-year institution's engineering program for transferability of course work credits beyond those prescribed below as additional courses are major specific and the 4-year institution may restrict the number of community college transfer credits.

Contact Information:

970-491-6220

lcraig@engr.colostate.edu

<http://www.engr.colostate.edu/students/future-students/undergraduate/transfer-1.html#requirements>

Please note that this curriculum neither fulfills the gtPathways general education curriculum nor the associate degree requirements at the community college.

Required Courses Applicable to All CSU Engineering Majors (30 credits)			
General Education Knowledge Area	Credit Hours	Community College (CCCS) Course No.	Course Title and gtPathways Category
Written Communication ¹	6	ENG 121 and ENG 122 OR ENG 122 and a gtPathways-approved CO3 course	English Composition I (GT-CO1) and English Composition II (GT-CO2) OR English Composition II (GT-CO2) and Advanced Writing CO3 course (GT-CO3)
Art & Humanities	3		Any gtPathways Arts & Humanities course from one of the following AH Categories: GT-AH1 , GT-AH2 or GT-AH3
Social & Behavioral Science	3	ECO 202	Any gtPathways Social & Behavioral Sciences course from one of the following SS Categories: GT-SS1 , GT-SS2 or GT-SS3 Principles of Microeconomics (GT-SS1) – Must be taken for the following majors: Biomedical/Electrical, Computer, Electrical & Environmental Engineering
History	3		Any gtPathways Historical Perspectives courses from the GT-HI1 category
Mathematics ²	5	MAT 201	Calculus I (GT-MA1)
Natural & Physical Sciences	5 5	PHY 211 CHE 111 ³	Physics: Calculus-based I (GT-SC1) General College Chemistry I with Lab (GT-SC1) – Will directly fulfill requirements for all Engineering majors except for Computer Engineering³

Additional Required Courses by Major:

The following courses may also count in certain engineering areas. Please check with appropriate department to verify your academic planning.

MAJOR AREA:	Credit Hours	Community College (CCCS) Course No.	Course Title and gtPathways Category
Chemical & Biological Engineering			
	5	BIO 111	General College Biology I with Lab (GT-SC1)
	5	CHE 112	General College Chemistry II with Lab (GT-SC1)
Civil Engineering			
	5	CHE 112	General College Chemistry II with Lab (GT-SC1)
	5	PHY 211	Physics: Calculus-based I
	3	CSC 233 or	Object Oriented Programming in C++ or
		CSC 240	Java Programming
	3	CAD 101	Computer-Aided Drafting I
Computer Engineering			
<i>If you determine you have met the minimum requirements for admission to Engineering we highly recommend that you APPLY to CSU</i>			
Electrical Engineering			
<i>If you determine you have met the minimum requirements for admission to Engineering we highly recommend that you APPLY to CSU</i>			
Engineering Science			
<i>If you determine you have met the minimum requirements for admission to Engineering we highly recommend that you APPLY to CSU</i>			
Environmental Engineering			
	5	CHE 112	General College Chemistry II with Lab (GT-SC1)
	5	PHY 211	Physics: Calculus-based I
	3	CSC 233 or	Object Oriented Programming in C++ or
		CSC 240	Java Programming
	3	CAD 101	Computer-Aided Drafting I
Mechanical Engineering			
<i>If you determine you have met the minimum requirements for admission to Engineering we highly recommend that you APPLY to CSU</i>			
Biomedical Engineering			
And Chemical and Biological Engineering			
	5	BIO 111	General College Biology I with Lab (GT-SC1)
	5	CHE 112	General College Chemistry II with Lab (GT-SC1)
And Electrical Engineering			
<i>If you determine you have met the minimum requirements for admission to Engineering we highly recommend that you APPLY to CSU</i>			
And Mechanical Engineering			
<i>If you determine you have met the minimum requirements for admission to Engineering we highly recommend that you APPLY to CSU</i>			

Special Program Notes:

¹If you are considering earning the Associates Degree from your Colorado Community College then you will be required to take 6 credits of Writing. Not all CSU Engineering majors will have room to accommodate 3 extra credits of Writing (i.e. Computer Engineering and Electrical Engineering) as they will require a 300 level Advanced Writing course beyond the CO-1/CO-2 or CO-2/CO-3 combination for completion of the associate's degree.

²Some of the Math and Sciences courses from the Colorado community college you are attending are 1-2 credits more than those equivalent courses at CSU (i.e. MATH 201 or BIO 111, etc...). Under gtPathways guidelines you will be awarded the full-credit for the courses as taken at the community college. Additionally, those credits may count towards completion of an Associates of Sciences at the community college, however, that extra credit may not count towards overall graduation requirements at CSU. It is important to note that CSU Engineering majors do not have 'free elective' credit options where this extra credit could possibly count.

³Computer Engineering majors can use CHE 111 for admissions consideration but the credit from the course will not fulfill any degree requirements for the major.

Admission Requirements to CSU and the College of Engineering

Meeting the minimum admission criteria is not a guarantee of admission to the institution or a specific program, but rather a minimum requirement a student should attain before attempting application.

Students transferring from community college should refer to the published admissions standards for the Engineering competitive majors located on the Admissions website at: <http://admissions.colostate.edu/competitive-majors/>

Please consult <http://admissions.colostate.edu/transferstudentshowtoapply/> for more information on the Transfer Application process.

For additional information you may contact the Transfer Student Center at 970-491-1858 or via email: transferstudentcenter@colostate.edu

Transfer Disputes

If disagreement regarding the transferability of credits for coursework or a degree occurs between a student and a receiving two-year or four-year institution, the Department will facilitate an expeditious review and resolution of the matter pursuant to Commission Policy, Section I, Part T: Student Complaint Policy. For more information, contact the Department at 303-866-2723 or file a complaint at <http://highered.colorado.gov/Academics/Complaints/default.html>