

Transfer & Advising Guide for Community College Students Transferring to: Colorado State University – Bachelor of Science Mechanical Engineering – Option for Aerospace Concentration

Department of Mechanical Engineering:
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This agreement identifies community college courses that will apply to the baccalaureate degree.

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

1. You should transfer into the bachelor's program after you take the courses outlined below. Transfer hours beyond the credits below are not guaranteed to apply toward the bachelor's degree.
2. Courses must meet transfer requirements of a C- or higher to transfer into Colorado State University and honor the course transfer published in this guide.
3. This Transfer Guide does not supplant any other transfer agreement your Colorado community college may have with this 4-year institution.

Transfer Recommendations: To ensure graduation within a reasonable timeframe (4-5 years), it is important that students follow the recommended schedule below. Students who wish to continue their education at the community college beyond the number of credits specified below should explore with both 2-yr and 4-yr advisors how their graduation timeline, COF stipend, and financial aid will be affected.

Guarantees and Limitations: Students:

- are responsible for meeting all admission requirements at the 4-year institution;
- are not guaranteed admission to the bachelor's degree 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 major, or elective credit;
- must consult with the 4-year institution's bachelor's degree program to utilize AP, IB, or CLEP credits;
- must consult with the 4-year institution's bachelor's degree 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.

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

Exhibit A:
Associate of Engineering Degree in Mechanical Engineering
 Colorado State University-Ft. Collins

Courses that Fulfill General Education Requirements				37
Content Area	Credit Hours	Community College Course No.	Course Title or Category	
Written Communication	6	Any GT-CO1 <u>AND</u> Any GT-CO2	English Composition I (GT-CO1) ¹ OR Technical Writing (GT-CO1) ¹ AND English Composition II (GT-CO2) ¹	
Calculus I & II	10	MAT 201 (5) AND MAT 202 (5)	Calculus I (GT-MA1) AND Calculus II (GT-MA1)	
Arts & Humanities	3	PHI 218 OR Any GT-AH	One GT Pathways Arts & Humanities course (GT-AH1, GT-AH2, GT-AH3, GT-AH4)	
Social & Behavioral Sciences	3	COM 220 OR Any GT-SS	One GT Pathways Social & Behavioral Sciences course (GT-SS1, GT-SS2, GT-SS3)	
Natural & Physical Sciences	15	CHE 111 (5) AND PHY 211 (5) AND PHY 212 (5)	General College Chemistry I/Lab (GT-SC1) AND Calculus-based Physics I/Lab (GT-SC1) AND Calculus-based Physics II/Lab (GT-SC1)	
Additional Required Courses				27
<i>Note:</i> If these credits are <i>not</i> required for the <i>major</i> at a receiving institution, they will be applied to the bachelor's degree as <i>elective credit</i> towards <i>graduation</i> . Check with the receiving institution to determine in which way these courses will be applied.				
Content Area	Credit Hours	Community College Course No.	Course Title	
Calculus III ¹	4 ¹	MAT 203 (4) OR MAT 204 (5)	Calculus III ¹ (4) OR Calculus III with Engineering Applications ¹ (5)	
Differential Equations & Linear Algebra ²	4 ²	MAT 261 (4) AND MAT 255 (3) OR MAT 265 (3) AND MAT 255 (3) OR MAT 266 (4)	Differential Equations with Engineering Applications ² (4) AND Linear Algebra (3) OR Differential Equations ² (3) AND Linear Algebra (3) OR Differential Equations with Linear Algebra ² (4)	
Engineering	9	EGG 211 (3) EGG 212 (3) EGG 132 (1) AND EGG 151 (2)	Engineering Mechanics I (Statics) Engineering Mechanics II (Dynamics) Engineering Data Analysis AND Experimental Design	
Engineering Projects	3	EGG 140 (3) OR EGT 140 (3)	Engineering Projects (3) OR Intro Design/Engineering Apps (3)	
Engineering Computing	4	EGG 145 (4)	Engineering Computing	
SolidWorks	3	CAD 255 (3)	SolidWorks/Mechanical	
Total³				64

NOTES:

¹**Calculus III.** *Calculus III w/ Engineering Applications (MAT 204) is preferred; However, additional credits over 64 may not transfer to CSU.*

²**Differential Equations & Linear Algebra:** *It is recommended for students to complete MAT 266. If a student completes MAT 265 **OR** MAT 261, they must also complete MAT 255 Linear Algebra along with MAT 265 or MAT 261. Credits for MAT 255 will need to be completed in addition to the 64 credits. Additional credits over 64 may not transfer to CSU.*

³*The Associate of Engineering Science Degree with a concentration in Mechanical Engineering requires a minimum of 64 credits.*