

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	CSU Transfer Equivalent
Written Communication	6	Any GT-CO1 AND Any GT-CO2	English Composition I (GT-CO1) ¹ OR Technical Writing (GT-CO1) ¹ AND English Composition II (GT-CO2) ¹	CO150
Calculus I & II	10	MAT 2410 (5) AND MAT 2420 (5)	Calculus I (GT-MA1) AND Calculus II (GT-MA1)	MATH160 MATH161
Arts & Humanities	3	PHI 2018 OR Any GT-AH	One GT Pathways Arts & Humanities course (GT-AH1, GT-AH2, GT-AH3, GT-AH4)	AUCC3B
Social & Behavioral Sciences	3	COM 2300 OR Any GT-SS	One GT Pathways Social & Behavioral Sciences course (GT-SS1, GT-SS2, GT-SS3)	AUCC3C
Natural & Physical Sciences	15	CHE 1111 (5) AND PHY 2111 (5) AND PHY 2112 (5)	General College Chemistry I/Lab (GT-SC1) AND Calculus-based Physics I/Lab (GT-SC1) AND Calculus-based Physics II/Lab (GT-SC1)	CHEM111& CHEM112 PH 141 PH142
Additional Required Courses				27
<i>Note: If these credits are not required for the major at a receiving institution, they will be applied to the bachelor's degree as elective credit towards graduation. Check with the receiving institution to determine in which way these courses will be applied.</i>				
Content Area	Credit Hours	Community College Course No.	Course Title	CSU Transfer Equivalent
Calculus III ¹	4 ¹	MAT 2430 (4) OR MAT 2431 (5)	Calculus III ¹ (4) OR Calculus III with Engineering Applications ¹ (5)	MATH 261
Differential Equations & Linear Algebra ²	4 ²	MAT 2561 (4) AND MAT 2540 (3) OR MAT 2560 (3) AND MAT 2540 (3) OR MAT 2560(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)	MATH340
Engineering	9	EGG 2011 (3) EGG 2012 (3) EGG 1050(1) AND EGG 1051 (2)	Engineering Mechanics I (Statics) Engineering Mechanics II (Dynamics) Engineering Data Analysis AND Experimental Design	CIVE 260 CIVE261 MECH 231
Engineering Projects	3	EGG 1040 (3) OR EGT 1110 (3)	Engineering Projects (3) OR Intro Design/Engineering Apps (3)	MECH 202
Engineering Computing	4	EGG 1060 (4)	Engineering Computing	MECH 105
SolidWorks	3	CAD 2455 (3)	SolidWorks/Mechanical	MECH 201
Total ³				64

NOTES:

¹**Calculus III.** Calculus III w/ Engineering Applications (MAT 2431) 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 2562. If a student completes MAT 2560 OR MAT 2561, they must also complete MAT 2540 Linear Algebra** along with MAT 2560 or MAT 2561. Credits for MAT 2540 will need to be completed in addition to the 64 credits. Additional credits over 64 may not transfer to CSU.

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