

COMMUNITY COLLEGE TRANSFER COURSES	Required for CU-Boulder Engineering Degree Program													CU-BOULDER COURSE CODE	
	Aerospace Engineering Sciences	Applied Mathematics	Architectural Engineering	Chemical & Biological Engineering	Chemical Engineering	Civil Engineering	Computer Science	Electrical & Computer Engineering	Electrical Engineering	Engineering Physics	Environmental Engineering	General Engineering Plus	Mechanical Engineering		
<b>MATHEMATICS COURSES</b>															
MAT 201 Calculus I (5cr.)	X	X	X	X	X	X	X	X	X	X	X	X	X	MATH 1300	
MAT 202 Calculus II (5cr.)	X	X	X	X	X	X	X	X	X	X	X	X	X	MATH 2300	
MAT 203 Calculus III (4cr.) OR MAT 204 Calculus III/Engineering App (5cr.)	X	X	X	X	X	X		X	X	X	X	X	X	MATH 2400	
MAT 255 Linear Algebra (3cr.)	**Must take MAT 255 + MAT 265 to count as APPM 2360 at CU. Computer Science will take MAT 255 on its own.														
MAT 265 Differential Equations (3cr.)	**Must take MAT 255 + MAT 265 to count as APPM 2360 at CU. Computer Science will take MAT 255 on its own.														
MAT 266 Diff. Equations AND Lin. Alg (4cr.)**	X	X	X	X	X	X		X	X	X	X	X	X	APPM 2360	
<i>** All majors (except for Computer Science) may complete MATH 266-4, or MATH 255-3 plus (MATH 261-4 or MATH 265-3), to satisfy the Differential Equations with Linear Algebra requirement for the CU-Boulder College of Engineering &amp; Applied Science.</i>															
<b>SCIENCE COURSES</b>															
BIO 111 General College Biology I (5 cr.)				X	X		Varies Depending on Track	or CHE 111	or CHE 111			or CHE 111		EBIO 1210/1230	
BIO 112 General College Biology II (5 cr.)				X	X										EBIO 1220/1240
CHE 111 General College Chemistry I (5 cr.)		X	X	X	X	X		or BIO 111	or BIO 111	X	X	or BIO 111	X		CHEM1113/1114
CHE 112 General College Chemistry II (5 cr.)				X	X					X	X				CHEM 1133/1134
CHE 211 Organic Chemistry I w/lab (5cr.)				X	X								Environmental track		CHEM 3311/3321
PHY 211 Physics: Calculus Based I (5 cr.)	X	X	X	X	X	X		X	X	X	X	X	X	X	PHYS 1110
PHY 212 Physics: Calculus Based II (5 cr.)	X	X	X	X	X	X		X	X	X	X	X	X	X	PHYS 1120
<b>COMPUTER SCIENCE COURSES</b>															
EGG 130 Intro to Engineering Computing (3cr.)	or CSC 160	or CSC 160	X	X	X	X					X	or CSC 160	or CSC 160	COEN 1300	
CSC 160 Computer Science I (4cr.)	or EGG 130	or EGG 130					X	X	X	X		or EGG 130	or EGG 130	CSCI 1300	
CSC 161 Computer Science II (4cr.)							X	X		or MCEN 1025 equiv.			X	CSCI 2270	
CSC 165 Discrete Structures (4cr.)							X	X						CSCI 2824	
CSC 225 Computer Arch & Assembly Lang. (4cr.)							X	X						CSCI 2400	
<b>ADDITIONAL ENGINEERING COURSES</b>															
AEC 220 Surveying (3cr.)			X			X								CVEN 2012	
AEC 221 Building Electrical/Mech. Syst. (3cr.)			X			X								AREN 2050	
CAD 101+102 OR 201 - Computer Aided Drafting			X								or CSC 161			AREN 1027	
CAD 255 or 256 or 257 or 258 or 259 - SolidWorks											or CSC 161		X	MCEN 1025*	
EGG 100 Intro to Engineering (1cr.)	X		X	X	X	X	X	X	X	X (engr elective)	X		X	COEN 1500	
EGG 101 Engineering Graphics (3cr.)			X											AREN 1027	
EGG 140 Engineering Projects (3cr.)	X		X			X		X	X	X (engr elective)	X		X	GEEN 1400	
EGG 206 Mechanics of Solids (3cr.)			X			X				X (engr elective)			X	MCEN 2063 OR CVEN 3161	
EGG 211 Engineering Mechanics I -Statics (3cr.)			or EGG 271			or EGG 271				or EGG 271	or EGG 271		or EGG 271	MCEN 2023 OR CVEN 2121	
EGG 212 Engineering Mechanics II -Dynamics (3cr.)			or EGG 272			or EGG 272				or EGG 272			or EGG 272	MCEN 2043 OR CVEN 3111	
EGG 230 Thermodynamics (3cr.)			X			X				X (engr elective)	X		X	MCEN 3012 OR AREN 2110	
EGG 271 Theoretical Mechanics-Statics (3cr.)			or EGG 211			or EGG 211				or EGG 211	or EGG 211		or EGG 211	MCEN 2023 OR CVEN 2121	
EGG 272 Theoretical Mechanics-Dynamics (3cr.)			or EGG 212			or EGG 212				or EGG 212			or EGG 212	MCEN 2043 OR CVEN 3111	
<b>Note: All above coursework indicated with an X indicates that it will transfer to CU-Boulder; however, this does not mean that all checked coursework is required prior to admission - please contact the department for specific curriculum details and course applicability to each specific major.</b>															
<b>GENERAL EDUCATION COURSES - HUMANITIES/SOCIAL SCIENCES (H/SS) EQUIVALENTS</b>															
ENG 121 English Composition I (3cr.)	NOTE: ENG 121 & 122 only count as a Free Elective in all majors of the College of Engineering and Applied Science. The number of Free Elective credits varies by department, but is generally 1-4 credit hours. Both courses are still strongly considered for better preparation in subsequent coursework and both are required for statewide A.A. and A.S. degrees.														
ENG 122 English Composition II (3cr.)															
<b>All College of Engineering and Applied Science Humanities and Social Science courses should be taken from the approved list. This Community College equivalent list can be found at: <a href="http://www.colorado.edu/engineering/admissions/transfer">http://www.colorado.edu/engineering/admissions/transfer</a></b>															
NOTE: CU-Boulder courses accepted by the College of Engineering and Applied Science can also be found at <a href="http://www.colorado.edu/engineering/academics/policies/hss">www.colorado.edu/engineering/academics/policies/hss</a>															

**ADDITIONAL NOTES:**

\*Grades of a C- or higher are required to transfer to CU-Boulder. However, individual departments may have higher grade requirements for select courses. Please consult with an academic advisor in your intended transfer program to be aware of all policies and transfer credit details.

\*Table prepared March 2014 and shows Colorado Community College courses that may be applied to specific majors for matriculants into CU-Boulder College of Engineering and Applied Science during the 2014-2015 academic year.



# CU-Boulder College of Engineering and Applied Science

COMMUNITY COLLEGE TRANSFER COURSES	Colorado Community Colleges														
	Aims Community College	Arapahoe Community College	Colorado Northwestern CC	Community College of Aurora	Community College of Denver	Colorado Mountain College	Front Range Community College	Lamar Community College	Morgan Community College	Northeastern Junior College	Pikes Peak Community College	Pueblo Community College	Red Rocks Community College	Trinidad State Junior College	CCC Online Courses
<b>**Course offerings listed below are subject to change and are determined by each individual community college. Check with your intended community college prior to enrolling to ensure accurate course offerings**</b>															
<b>MATHEMATICS COURSES</b>															
MAT 201 Calculus I (5cr.)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MAT 202 Calculus II (5cr.)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MAT 203 Calculus III (4cr.) OR MAT 204 Calculus III/Engineering App (5cr.)	MAT 203 Only	X	X	Both MAT 203 & 204	MAT 204 Only	X	Both MAT 203 & 204	X	X	X	X	X	MAT 204 Only	Both MAT 203 & 204	X
MAT 255 Linear Algebra (3cr.)	**Must take MAT 255 + MAT 265 to count as APPM 2360 at CU. Computer Science will take MAT 255 on its own.														
MAT 265 Differential Equations (3cr.)	**Must take MAT 255 + MAT 265 to count as APPM 2360 at CU. Computer Science will take MAT 255 on its own.														
MAT 266 Diff. Equations AND Lin. Alg (4cr.)**				X	X	X	X								
<i>** All majors (except for Computer Science) may complete MATH 266-4, or MATH 255-3 plus (MATH 261-4 or MATH 265-3), to satisfy the Differential Equations with Linear Algebra requirement in the CU-Boulder College of Engineering &amp; Applied Science.</i>															
<b>SCIENCE COURSES</b>															
BIO 111 General College Biology I (5 cr.)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BIO 112 General College Biology II (5 cr.)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CHE 111 General College Chemistry I (5 cr.)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CHE 112 General College Chemistry II (5 cr.)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CHE 211 Organic Chemistry I w/ lab (5cr.)	X	X		X	X		X			X	X		X		
PHY 211 Physics: Calculus Based I (5 cr.)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PHY 212 Physics: Calculus Based II (5 cr.)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<b>COMPUTER SCIENCE COURSES</b>															
EGG 130 Intro to Engineering Computing (3cr.)	Varies by individual community colleges from each semester - Same as CSC 160														
CSC 160 Computer Science I (4cr.)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CSC 161 Computer Science II (4cr.)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CSC 165 Discrete Structures (4cr.)													X		X
CSC 225 Computer Arch & Assembly Lang. (4cr.)				X			X				X				X
<b>ADDITIONAL ENGINEERING COURSES</b>															
AEC 220 Surveying (3cr.)	X	X									X				
AEC 221 Building Electrical/Mech. Syst. (3cr.)	X						X				X				
CAD 101+102 OR 201 - Computer Aided Drafting	X	X	except 201		X	X	X	except 201			X	except 201	X		
CAD 255 or 256 or 257 or 258 or 259 - SolidWorks	X	X			X	X	X				X	X	X		
EGG 100 Intro to Engineering (1cr.)		X										X			
EGG 101 Engineering Graphics (3cr.)		X										X			
EGG 140 Engineering Projects (3cr.)						X									
EGG 206 Mechanics of Solids (3cr.)						X									
EGG 211 Engineering Mechanics I -Statics (3cr.)		X				X	X					X		X	
EGG 212 Engineering Mechanics II -Dynamics (3cr.)		X				X	X					X		X	
EGG 230 Thermodynamics (3cr.)						X									
EGG 271 Theoretical Mechanics-Statics (3cr.)										X		X			
EGG 272 Theoretical Mechanics-Dynamics (3cr.)										X					
<b>GENERAL EDUCATION COURSES - HUMANITIES/SOCIAL SCIENCES (H/SS) EQUIVALENTS</b>															
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ENG 122 English Composition II (3cr.)	<i>better preparation in subsequent coursework and both are required for statewide A.A. and A.S. degrees.</i>														
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