University of Colorado Boulder

CU-Boulder College of Engineering and Applied Science

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	Engineering Plus	Mechanical Engineering	Technology, Arts and Media	
MATHEMATICS COURSES															
MAT 201 Calculus I (5cr.)	X	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	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	X	MATH 2400
MAT 255 Linear Algebra (3cr.)	**Must take MAT 255 + MAT 261 (or MAT 265) to count as APPM 2360 at CU**. Computer Science will take MAT 255 on its own.														
MAT 261 OR 265 Differential Equations (3cr.)															
MAT 266 Diff. Equations & Lin. Alg (4cr.)**	X	X	X	X	X	X		X	X	X	X	X	X	X	APPM 2360
** *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 & Applied Science.*															
SCIENCE COURSES															
BIO 111 General College Biology I (5 cr.)				Need both to count for CHEN 2810				or CHE 111	or CHE 111			or CHE 111		X	EBIO 1210/1230
BIO 112 General College Biology II (5 cr.)														X	EBIO 1220/1240
CHE 111 General College Chemistry I (5 cr.)		X	X	Need both to count for CHEN 1211/CHEM 1221		X	X	or BIO 111	or BIO 111	X	Need both to count for CHEN 1211/CHEM 1221	or BIO 111	X	X	CHEM1113/1114
CHE 112 General College Chemistry II (5 cr.)										X				X	CHEM 1133/1134
CHE 211 Organic Chemistry I w/lab (5cr.)				X	X								Environmental track		CHEM 3311/3321
CHE 212 Organic Chemistry II w/lab (5cr.)				X	X										CHEM 3331/3341
PHY 211 Physics: Calculus Based I (5 cr.)	X	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	X	PHYS 1120
For majors that require PHYS 1140 (Experimental Physics) at CU-Boulder, taking both PHY 211+PHY 212 will satisfy that requirement															
COMPUTER SCIENCE COURSES															
EGG 130 Intro to Engineering Computing (3cr.)			or CSC 160	X	X	or CSC 160					X			or CSC 160	CHEN 1310
CSC 160 Computer Science I (4cr.)	X	X	or EGG 130			or EGG 130	X	X	X	X		X	X	or EGG 130	CSCI 1300
CSC 161 Computer Science II (4cr.)							X	X		or MCEN 1025 equiv.			X	X	CSCI 2270
CSC 165 Discrete Structures (4cr.)							X	X						X	CSCI 2824
CSC 225 Computer Arch & Assembly Lang. (4cr.)							X	X							CSCI 2400
ADDITIONAL ENGINEERING COURSES															
AEC 220 Surveying (3cr.)		Varies Depending on Specific Emphasis Area	X			X						Varies Depending on Track			CVEN 2012
AEC 221 Building Electrical/Mech. Syst. (3cr.)			X			X									AREN 2050
CAD 101 and 102 - Computer Aided Drafting			X			102 Only				or CSC 161				X	AREN 1027
CAD 255 or 256 or 257 or 258 or 259 - SolidWorks										or CSC 161			X	X	MCEN 1025*
EGG 100 Intro to Engineering (1cr.)	X		X	X	X	X	X	X	X	X (engr elective)	X		X	X	COEN 1500
EGG 101 Engineering Graphics (3cr.)			X			X								X	AREN 1027
EGG 140 Engineering Projects (3cr.)	X		X			X		X	X	X (engr elective)	X		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

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.

GENERAL EDUCATION COURSES - HUMANITIES/SOCIAL SCIENCES (H/SS) EQUIVALENTS	
ENG 121 English Composition I (3cr.) ENG 122 English Composition II (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.*

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: http://www.colorado.edu/engineering/admissions/transfer

NOTE: CU-Boulder courses accepted by the College of Engineering and Applied Science can also be found at ***www.colorado.edu/engineering/academics/policies/hss***

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 May 2015 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 2015-2016 academic year.

University of Colorado Boulder

CU-Boulder College of Engineering and Applied Science

COMMUNITY COLLEGE TRANSFER COURSES	Colorado Community Colleges														CU-BOULDER COURSE CODE
	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	
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															
MATHEMATICS COURSES															
MAT 201 Calculus I (5cr.)	X	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	X	MATH 2300
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	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 261 OR 265 Differential Equations (3cr.)															
MAT 266 Diff. Equations & Lin. Alg (4cr.)**				Only 266	Only 266	Only 266	Only 266								APPM 2360
*** 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 & Applied Science.*															
SCIENCE COURSES															
BIO 111 General College Biology I (5 cr.)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	EBIO 1210/1230
BIO 112 General College Biology II (5 cr.)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	EBIO 1220/1240
CHE 111 General College Chemistry I (5 cr.)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	CHEM1113/1114
CHE 112 General College Chemistry II (5 cr.)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	CHEM 1133/1134
CHE 211 Organic Chemistry I w/ lab (5cr.)	X	X		X	X		X			X	X		X		CHEM 3311/3321
PHY 211 Physics: Calculus Based I (5 cr.)	X	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	X	PHYS 1120
COMPUTER SCIENCE COURSES															
EGG 130 Intro to Engineering Computing (3cr.)															COEN 1300
CSC 160 Computer Science I (4cr.)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	CSCI 1300
CSC 161 Computer Science II (4cr.)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	CSCI 2270
CSC 165 Discrete Structures (4cr.)													X	X	CSCI 2824
CSC 225 Computer Arch & Assembly Lang. (4cr.)				X			X				X			X	CSCI 2400
ADDITIONAL ENGINEERING COURSES															
AEC 220 Surveying (3cr.)	X	X									X				CVEN 2012
AEC 221 Building Electrical/Mech. Syst. (3cr.)	X						X				X				AREN 2050
CAD 101+102 - Computer Aided Drafting	X	X	X		X	X	X	X			X	X	X		AREN 1027
CAD 255 or 256 or 257 or 258 or 259 - SolidWorks	X	X			X	X	X				X	X	X		MCEN 1025*
EGG 100 Intro to Engineering (1cr.)		X										X			COEN 1500
EGG 101 Engineering Graphics (3cr.)		X										X			AREN 1027
EGG 140 Engineering Projects (3cr.)						X									GEEN 1400
EGG 206 Mechanics of Solids (3cr.)						X									MCEN 2063 OR CVEN 3161
EGG 211 Engineering Mechanics I -Statics (3cr.)		X				X	X					X		X	MCEN 2023 OR CVEN 2121
EGG 212 Engineering Mechanics II -Dynamics (3cr.)		X				X	X					X		X	MCEN 2043 OR CVEN 3111
EGG 230 Thermodynamics (3cr.)						X									MCEN 3012 OR AREN 2110
EGG 271 Theoretical Mechanics-Statics (3cr.)										X		X			MCEN 2023 OR CVEN 2121
EGG 272 Theoretical Mechanics-Dynamics (3cr.)										X					MCEN 2043 OR CVEN 3111
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*Table prepared August 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.