

CHE 211 Organic Chemistry I w/lab (5cr.)

CHE 212 Organic Chemistry II w/lab (5cr.)
PHY 211 Physics: Calculus Based I (5 cr.)

PHY 212 Physics: Calculus Based II (5 cr.)

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## CU-Boulder College of Engineering and Applied Science



CHEM 3311/3321

CHEM 3331/3341

PHYS 1110

PHYS 1120

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Oniversity of Colorado Botalder		CO-Boulder College of Englineering and Applied Science													
	Required for CU-Boulder Engineering Degree Program														
COMMUNITY COLLEGE TRANSFER COURSES	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	CU-BOULDER COURSE CODE
						MATHEMAT	ICS COURSES								
MAT 201 Calculus I (5cr.)	X	Х	X	Х	Х	Х	X	Х	Х	Х	X	Х	Х	Х	MATH 1300
MAT 202 Calculus II (5cr.)	X	X	X	Х	Х	Х	X	Х	Х	Х	X	Х	X	Х	MATH 2300
MAT 203 Calculus III (4cr.)															
OR	X	X	Х	Х	Х	Х		Х	Х	Х	Х	X	Х		MATH 2400
MAT 204 Calculus III/Engineering App (5cr.)														X	
MAT 255 Linear Algebra (3cr.)			**N	ust taka MAT	255 ± MAT 26	61 (or MAT 26	E) to count a	- ADDM 2260 -	+ CII Comput	or Scionco will	take MAT 255 o	n its own	•	•	
MAT 261 OR 265 Differential Equations (3cr.)			IVI	ust take MAI	233 + IVIA I 20	DI (OI WAI 20	s) to count as	S AFFIVI 2300 8	it Co. Comput	er science will	take MAT 255 O	II Its OWII.			
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 S	cience) may con	mplete MATH 26	66-4, or MATH 2	255-3 <u>plus</u> (MA	ATH 261-4 or M	IATH 265-3), to	satisfy the Diff	erential Equation	ons with Linear	Algebra require	ement for the CU	I-Boulder Colleg	e of Engineering	& Applied Science	е.
						SCIENCE	COURSES								
BIO 111 General College Biology I (5 cr.)				Need both	to count for			or CHE 111	or CHE 111			or CHE 111		X	EBIO 1210/1230
BIO 112 General College Biology II (5 cr.)				CHEN	I 2810									X	EBIO 1220/1240
CHE 111 General College Chemistry I (5 cr.)		Х	Х	1	to count for	Х	Х	or BIO 111	or BIO 111	Х	Need both to count for CHEN	or BIO 111	Х	Х	CHEM1113/1114
CHE 112 General College Chemistry II (5 cr.)				CHEN 1211,	/CHEM 1221					Х	1211/CHEM 1221			Х	CHEM 1133/1134

For majors that require PHYS 1140 (Experimental Physics) at CU-Boulder, taking both PHY 211+PHY 212 will satisfy that requirement

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						COMPUTER SC	IENCE COURSE	S							
EGG 130 Intro to Engineering Computing (3cr.)			or CSC 160	X	Х	or CSC 160					X			or CSC 160	CHEN 1310
CSC 160 Computer Science I (4cr.)	X	X	or EGG 130			or EGG 130	X	Х	Х	X		X	X	or EGG 130	CSCI 1300
CSC 161 Computer Science II (4cr.)							х	х		or MCEN 1025 equiv.			х	Х	CSCI 2270
CSC 165 Discrete Structures (4cr.)							X	Х						Х	CSCI 2824
CSC 225 Computer Arch & Assembly Lang. (4cr.)							X	X							CSCI 2400
					AD	DITIONAL ENG	<b>NEERING COU</b>	RSES							
AEC 220 Surveying (3cr.)			X			Х									CVEN 2012
AFC 221 Building Floatsical (March Cost (200)			V			V						1			A DENI 2050

AEC 221 Building Electrical/Mech. Syst. (3cr.)			Х			Х									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	Х	MCEN 1025*
EGG 100 Intro to Engineering (1cr.)	Х		X	Х	X	Х	Х	Х	Х	X (engr elective)	X		X	X	COEN 1500
EGG 101 Engineering Graphics (3cr.)			X			Х								X	AREN 1027
EGG 140 Engineering Projects (3cr.)	Х	Varies	X			Х		X	X	X (engr elective)	X		X	X	GEEN 1400
EGG 206 Mechanics of Solids (3cr.)		Depending	X			x				X (engr elective)		Varies	X		MCEN 2063 OR
EGG 200 Mechanics of Solids (Sci.)		on Specific				^				A (engl elective)		Depending on	^		CVEN 3161
EGG 211 Engineering Mechanics I -Statics (3cr.)			or EGG 271			or EGG 271				or EGG 271	or EGG 271	Track	or EGG 271		MCEN 2023 OR
Edd 211 Engineering Weenanies 1 Staties (Ser.)		Emphasis	01 200 271			01 200 271				01 200 271	01 200 271	Track	0/ 200 2/1		CVEN 2121
EGG 212 Engineering Mechanics II - Dynamics (3cr.)		Area	or EGG 272			or EGG 272				or EGG 272			or EGG 272		MCEN 2043 OR
EGG 212 Engineering Mechanics II - Dynamics (5ci.)			01 EGG 272			OI EGG 272				01 EGG 272			01 E00 272		CVEN 3111
EGG 230 Thermodynamics (3cr.)			v			v				X (engr elective)	V		V		MCEN 3012 OR
Edd 250 Thermodynamics (Scr.)			Χ			^				A (erigi elective)	^		^		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
EGG 271 Theoretical Mechanics-Statics (Scr.)			01 EGG 211			01 EGG 211				01 EGG 211	01 EGG 211		OI EGG 211		CVEN 2121
EGG 272 Theoretical Mechanics-Dynamics (3cr.)			or EGG 212			or EGG 212				or EGG 212			or EGG 212		MCEN 2043 OR
EGG 272 Theoretical Mechanics-Dynamics (Scr.)			01 EGG 212			OI EGG 212				01 EGG 212			01 EGG 212		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.)

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:

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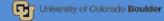
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<sup>\*</sup>Grades of a C- or higher are required to transfer to CU-Boulder. However, individual departments may have higher grade requirements for select courses. Please consult with an academic advisor in your intended transfer program to be aware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

<sup>\*</sup>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.



# CU-Boulder College of Engineering and Applied Science



	Colorado Community Colleges															
COMMUNITY COLLEGE TRANSFER COURSES	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	CU-BOULDER COURSE CODE
**Course offerings listed										ed communi				ccurate cour	se offerings**	COUNCE CODE
Ocaroc onermigo notes	a below are a	abject to on	ange and are	determined i	y caon mare				your interior	ca comman	ty conege pr	ior to crironin	g to choure c	iodurate dour	oc oncringo	
MAT 201 Calculus I (5cr.)	X	Х	X	Х	Х		ATHEMATICS CO	X	Х		X	X		l x	Х	MATH 1300
MAT 202 Calculus II (5cr.)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	MATH 2300
MAT 203 Calculus III (4cr.)		^	^	^		^	^	^	^	^	^	^	^	^	^	WATT 2500
OR	MAT 203	Х	Х	Both MAT	MAT 204	x	Both MAT	х	Х	X	х	Х	MAT 204	Both MAT	Х	MATH 2400
MAT 204 Calculus III/Engineering App (5cr.)	Only	^	^	203 & 204	Only	^	203 & 204	^	^	^	^	^	Only	203 & 204	^	WATT 2400
MAT 255 Linear Algebra (3cr.)			II.	l			1				l		l	1		
**Must take MAT 255 + MAT 265 to count as APPM 2360 at CU. Computer Science will take MAT 255 on its own.  **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 & Lin. Alg (4cr.)**				Only 266	Only 266	Only 266	Only 266									APPM 2360
, ,		.)	- MATU 200 4 -				+	D:66		ith Linner Alex	L	tin the CII Dev	11 C-11	F	!:d C-:	
** All majors (except for Computer Science) may complete MATH 266-4, or MATH 265-3, 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 COUF	SES								
BIO 111 General College Biology I (5 cr.)	Х	Х	X	X	X	Х	Х	Х	X	Х	Х	Х	Х	Х	X	EBIO 1210/1230
BIO 112 General College Biology II (5 cr.)	Х	X	Х	Х	Х	Х	Х	Х	Х	X	Х	Х	Х	Х	X	EBIO 1220/1240
CHE 111 General College Chemistry I (5 cr.)	Х	Х	Х	Х	Х	Х	Х	Х	Х	X	Х	Х	Х	Х	X	CHEM1113/1114
CHE 112 General College Chemistry II (5 cr.)	Х	X	Х	Х	X	Х	X	Х	Х	X	X	Х	X	X	Х	CHEM 1133/1134
CHE 211 Organic Chemistry I w/ lab (5cr.)	Х	X		Х	X		Х			X	X		X			CHEM 3311/3321
PHY 211 Physics: Calculus Based I (5 cr.)	X	X	X	Х	X	X	X	X	X	X	X	X	X	X	X	PHYS 1110
PHY 212 Physics: Calculus Based II (5 cr.)	Х	X	Х	Х	Х	Х	Х	Х	Х	Х	Х	X	Х	Х	Х	PHYS 1120
505 120 1 1 5 1 1 1 5 1 1 1 1	1	ı	l e	I	ı	СОМ	PUTER SCIENCE	COURSES	ı	T T	1	ı	1	1		00511 4000
EGG 130 Intro to Engineering Computing (3cr.)												.,				COEN 1300
CSC 160 Computer Science I (4cr.)	Х	Х	Х	Х	Х	Х	Х	X	Х	Х	Х	X	Х	X	Х	CSCI 1300
CSC 161 Computer Science II (4cr.)	Х	Х	X	Х	Х	Х	Х	X	Х	X	Х	Х	Х	Х	Х	CSCI 2270
CSC 165 Discrete Structures (4cr.)													Х		Х	CSCI 2824
CSC 225 Computer Arch & Assembly Lang. (4cr.)				Х			X				Х				X	CSCI 2400
						ADDITIO	NAL ENGINEER	ING COURSES								
AEC 220 Surveying (3cr.)	X	X									X					CVEN 2012
AEC 221 Building Electrical/Mech. Syst. (3cr.)	X						Х				X					AREN 2050
CAD 101+102 - Computer Aided Drafting	Х	X	X		Х	Х	Х	X			Х	X	Х			AREN 1027
CAD 255 or 256 or 257 or 258 or 259 - SolidWorks	Х	Х			Х	Х	Х				Х	Х	Х			MCEN 1025*
EGG 100 Intro to Engineering (1cr.)		X										X				COEN 1500
EGG 101 Engineering Graphics (3cr.)		Х										X				AREN 1027
EGG 140 Engineering Projects (3cr.)						Х										GEEN 1400
EGG 206 Mechanics of Solids (3cr.)						Х										MCEN 2063 OR CVEN 3161
EGG 211 Engineering Mechanics I -Statics (3cr.)		Х				Х	Х					Х		Х		MCEN 2023 OR
200 ZII Engineering Weenames F States (Ser.)		^				_ ^	,					^		^		CVEN 2121
EGG 212 Engineering Mechanics II -Dynamics (3cr.)		Х				Х	Х					X		X		MCEN 2043 OR CVEN 3111
EGG 230 Thermodynamics (3cr.)						х										MCEN 3012 OR AREN 2110
EGG 271 Theoretical Mechanics-Statics (3cr.)										Х		х				MCEN 2023 OR CVEN 2121
EGG 272 Theoretical Mechanics-Dynamics (3cr.)										Х						MCEN 2043 OR CVEN 3111
				GENE	RAL EDUCA <u>TIO</u>	N COURSES -	HUMANITIES/S	OCIAL SCIENC	ES (H/SS) EQU	IVALENTS				•		
ENG 121 English Composition I (3cr.) ENG 122 English Composition II (3cr.)	better prepara	ition in subsequ	uent coursework	lective in all m and both are r	ajors of the Co equired for stat	llege of Engine tewide A.A. and	eering and Appli d A.S. degrees.	ed Science. The	e number of Fr	ee Elective cred					n courses are still s	trongly considered for
3 , , ,	better prepara	ition in subsequ	uent coursework	and both are r	equired for stat	tewide A.A. and	d A.S. degrees.									

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.

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