Construction Engineering Curriculum Facts CNM to UNM

********IMPORTANT: To assure accuracy based on individual curriculum, student must meet with advisors at CNM and UNM*********

- The course ENGR 2088 is an Engineering Elective course specific to UNM Engineering B.S. curriculum. ENGR 2088 is a course completed at UNM, then transferred back to CNM.
 - Ex. The course ECE 330 is completed at UNM, then transferred to CNM where it becomes ENGR 2088. Course fulfills A.S. and B.S. requirements.

Engineering

Students should contact an Advisor to understand UNM Engineering Curriculum Semester Sequencing upon full transfer.

- IT 1010 IT 1010
 - All CNM students are eligible to challenge IT 1010. IT 1010 is not a UNM B.S. requirement, but is a CNM A.S. requirement. UNM does not accept credit hours for the completion of IT 1010 challenge exam.
- ENGR 2815 Engineering Dynamics
 - ENGR 2815 Engineering Dynamics at CNM will satisfy UNM ME 306 Dynamics requirement, but the course will maintain lower level status and will not fulfill upper division degree requirements.
- MATH 2910 Applied Ordinary Differential Equations
 - MATH 2910 Applied Ordinary Differential Equations at CNM will satisfy UNM's MATH 316 Applied Ordinary Differential Equations, but will maintain lower level status and will not fulfill upper division degree requirements.

Construction Engineering Departmental Requirements:

Complete the following list of courses with a GPA of 2.75 or better and a grade of C- or better in each course.

- MATH 162 (4) = MATH 1710 (4)
- MATH 163 (4) = MATH 1715 (4)
- CHEM 121/123L = CHEM 1710/1792 (4)
- CS 151L (3) = CSCI 1153 (4)
- PHYC 160 (3) = PHYS 1710 (4)
- ENGR 2088 = CE 160L (3)

For further questions regarding Transfer to UNM in the STEM fields contact:

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FNG 2219	Semester Three:		Total:	IT 1010	ENGR 2088	CHEM 1710/1792	MATH 1710	ENG 1101	Semester One:	Course Subject and Title Cr. H		Construction Engineering Cun
ω			17	ω	ω	4	4	3		trs. Maj	CNV	riculum
ω			17	ω	ω	4	4	ω		or Core	V	Alignm
3 ENGL 219			11		UNM CE 160	4 CHEM 121/123L	4 MATH 162	3 ENGL 110		UNM Equivalent/ Prerequisites		ent Community Co
ω			14		ш	4	4	3		Major	MNN	
ACCT 1110	Semester Four:		Total:	ENGR 1010	CSCI 1153	PHYS 1710/1792	MATH 1715	ENG1102	Semester Two:	Course Subject and Title		NU
ω			17	1	4	л	4	з		Cr. Hrs. N	0	Μ
ω			17	1	4	ഗ	4	3		/lajor Core	MN	KTROOK
MGMT 202			3		CS 151L	PHYC 160/160L	MATH 163	3 ENGL 120		2 UNM Equivalent/ Prerequisites		₫ ENGINEERING
ω			14		з	4	4	3		Major	MNN	
	Summer Semester:		Total:			Social/Behavioral	Humanities	ECON 2200	Summer Semester:	Course Subject and Title Cr. Hr:		CNM Engineering
			9 9			ω ω	ω	3 3		:. Majo (C	CNM	A.S. to
			9			ω	ω	3 ECON 105		Core UNM Equivalent/ Notes		UNM Construction Enginee Four Year Rc
			9			ω	ω	ω		Major	MNN	ring B.S. vad Map

/1892

MATH 264 PHYC 161/161L

MATH 2910 CHEM 1810/1892 or EPS 1101 ENGR 2815

ω

MATH 316 3 CHEM 122/124L(4 Cr. Hrs) or EPS 101 (3 Cr. hrs)

ME 306 / Pre-req ENGR 2810/ Pre or Co-req Math 2710

Humanities Total

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5

6

Total

0 0 0

69

CE 202/Pre-req PHYS 1710

18

18

F	Bro	ou	gh	t t	o y	/01	u ł	Ŋу	ST	Έ	M	U	P	CN	١N	1/U	JN	M	Co	op	er	ati	ve	Ir	niti	iat	ive	•
		Total	*Foreign	CE 495	CE 477	CE 455	CE 331	STAT 345	Semes:			Total	CE 376	CE 350	CE 305	CE 302	CE 283	Semes:			Total	Fine Arts	ENGR 281	PHYS 1810	MATH 27:	ENG 2219	Semes:	

							A.S. Total 76 73 35
Semester Five:	Major Minor	UD Hrs Notes	Semester Six:	Major Mir	or UD Hrs	Votes	
CE 283	3	Pre-req Math 162 (CNM's 1710)	CE 308	3	3	Pre-req CE 302 and 305	Roberto P. Vazquez
CE 302	3	3 Pre-req CE 202 (CNM's ENGR 2810)/ Pre or Co-req Math 316 (CNM's 2910)	CE 310	4	4	re or Co-req CE 308	Transfer Articulation Analyst
CE 305	4	4 Pre-req ENGL 219/(CNM's ENG 2219)/ Pre or Co-req CE 302 or 371	CE 360	4	4	Pre-req CE 302	STEM UP
CE 350	3	3 Pre-req Math 162 (CNM's Math 1710)/ Must be Junior or Senior standing	CE 370	3	3	Pre-req CE 350/ Must be Junior or Senior standing	CNM/UNM Cooperative
CE 376	3	3	CE 377	3	ω		505.277.5166
Total	16	13	Total	17	17		
Semester Seven:	Major Minor	r UD Hrs Notes	Semester Eight:	Major Mir	or UD Hrs	Votes	*Asterisk information is noted on the Curriculum Facts.
STAT 345	3	3 Pre-req Math 181 or 163(CNM's Math 1465 or 1715)	CE 409	1	1	Must be Senior standing	
CE 331	4	4 Pre or Co-req CE202(CNM's ENGR2810) and ME302 and three lectures	CE 473	ω	ω	re-req CE 376,377 and ENGL 219(CNM's ENG 2219)/ Must be Junior or Senior	
CE 455	3	3 Must be Junior or Senior standing	CE 475	ω	ω	re-req CE 376,377 and ENGL 219(CNM's ENG 2219)/ Must be Junior or Senior	
CE 477	3	3 Pre-req CE 376 and 377/ Must be Junior or Senior standing	CE 499L	ω	ω	re-req CE 310, 331, 350 and 360/ Must be Senior standing	
CE 495	1	1 Must be Junior or Senior standing	ECE 203 or CHNE/ME 301	3		:CE203 offered at CNM ENGR 2910/ ME 301 Offered at CNM ENGR 2710	
*Foreign Language	3						
Total	17	14	Total	13	10		

B.S. Total

139

3 5

Degree Transfer Agreement Fall 2013 – Summer 2016 based on 2013-2014 CNM and UNM Catalogs

Central New Mexico Community College A.S. Engineering For transfer into

University of New Mexico B.S. Engineering

- This Degree Transfer Agreement fulfills all A.S. Engineering requirements at CNM <u>and</u> Admission requirements to UNM's School of Engineering.
- This Degree Transfer Agreement goes into effect beginning Fall 2013 and will be valid for admission into UNM's School of Engineering through Summer 2016.
- Please speak with your STEM Advisor if you have AP or CLEP credit, which could fulfill certain course requirements below.
- **Pay attention to prerequisite course requirements** and plan courses accordingly. Prerequisites may be different at each institution. Please speak with your STEM Advisor.
- Be sure to review Engineering department admission requirements for the GPA requirement of your major at UNM, as they vary by major. Speak to an advisor <u>before</u> enrolling in coursework.
- All course work required for graduation from UNM must be successfully completed with a 'C' or better within three (3) attempts.

CN	IM	UNM					
A.S. Eng	ineering			B.S. Chemical Engineering			
	<u> </u>			B.S. Civil Engineering			
		B.S. Computer Engineering					
			В.	S. Construction Engineering			
			-	B.S. Electrical Engineering			
			В	S. Mechanical Engineering			
				B.S. Nuclear Engineering			
	Computer and En	ginee	ering Courses	5			
ENGR 1010 Survey of	of Engineering	No	ot required fo	or Engineering majors at UNM, but			
(1)		me	eets A.S. req	uirement at CNM			
IT 1010 Introduc	ction to Computers						
(3)							
For Electrical & Computer	· Engineering Majors	Fo	or Electrical &	Computer Engineering Majors only:			
only:		EC	CE 131	Programming Fundamentals			
CSCI 1151 Intro to	Programming for Non-	(3))				
	Majors						
(4)		OR					
0)R	For all other Engineering Majors:					
For all other Engineering	Majors:	CS	5 151L	Computer Programming			
CSCI 1153 Program	nming in MATLAB			Fundamentals for Non-Majors			
(4)		(3))				
	Mathemat	tics Courses					
Math placement is deterr	nined by Accuplacer exam, A	CT or SAT scores. Speak with your STEM advisor to find					
out which Math course(s)	you may need to complete <u>B</u>	EFOF	<u>RE</u> taking Cal	culus.			
MATH 1710 Calculus	1	M	ATH 162	Calculus I			
(4)		(4))				
MATH 1715 Calculus	11	M	ATH 163	Calculus II			
(4)		(4))				
MATH 2710 Calculus	;	M/	ATH 264	Calculus III			
(4)		(4))				
¹ MATH 2910 Applied	Ordinary Diff Equations	¹ M	/ATH 316/MA	ATH 2T Applied Ord Diff Equations			
(3) See your STEM Advisor	about this course.	(3))				
		Se	e your STEM	Advisor about this course.			

	as listed below:			
CHEM 1710	General Chemistry I		CHEM 121	General Chemistry I
(3)			(3)	
CHEM 1792	General Chemistry I Lab		CHEM 123L	General Chemistry I Lab
(1)			(1)	
PHYS 1710	Physics for Scientists I		PHYC 160	General Physics I
(4)			(3)	
PHYS 1792	Physics for Scientists I Lab		PHYC 160L	General Physics I Lab
	Dhyrics for Scientists II	-		Conoral Dhysics II
(4)	Physics for Sciencists II		(2)	General Physics II
(4) PHYS 1892	Physics for Scientists II Lah		(3) PHYC 1611	General Physics II Lab
(1)	Thysics for Sciencists in Eus		(1)	
(-)	Commu	nica	tions Core	
ENG 1101	College Writing		ENGL 101	Composition I: Exposition
(3)			(3)	
ENG 1102	Analytic & Argumentative Writ		ENGL 102	Composition II: Analysis & Argum
(3)			(3)	
ENG 2219	Technical Communications		ENGL 219	Technical Writing
(3)			(3)	
	Humo	nit	ies Core	
510 2262	Choose two courses below	VTro		Mandal Lite Anniant to 10 th C
ENG 2262	Survey of Early world Lit		ENGL 292	World Lit: Ancient to 16" C
(3) ENG 2262	Survey of Later World Lit			World Lit: 17 th Contury Pros
(3)	Survey of Later World Lit		(3)	Woha Lit. 17 Century-Fres
HIST 1101 or H	UM 1111 Western Civilization I		HIST 1011	Western Civilization to 1648
(3)			(3)	
HIST 1102 or H	UM 1112 Western Civilization II		HIST 102L	Western Civilization Post 1648
(3)			(3)	
HIST 1161	History of the United States I		HIST 161	History of the U.S. to 1877
(3)			(3)	
HIST 1162	History of the United States II		HIST 162	History of the U.S. Since 1877
(3)			(3)	
HIST 1182	Modern Latin American History		HIST 182	Modern Latin American History
(3)			(3)	
PHIL 1110	Intro. to Philosophical Thought		PHIL 101	Introduction to Philosophy
(3)		_	(3)	
RLGN 1107	Living World Religions		RELG 107	Living World Religions
(3)	Fratawa Daliai awa	-	(3)	Factors Daliaiana
RLGN 2263	Eastern Religions		RELG 263	Eastern Religions
(5)	-	A	(5)	
	Choose on	e co	ourse below:	
ARTH 1101	Introduction to Art		ARTH 101	Introduction to Art
(3)			(3)	
ARTH 2201	History of Art I	1	ARTH 201	History of Art I
(3)	-		(3)	-
ARTH 2202	History of Art II	1	ARTH 202	History of Art II
(3)			(3)	
ENG 2210	Film as Literature	1	MA 210	Introduction to Film Studies
(3)			(3)	

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MUS 1139	Early Music Appreciation		MUS 139	Music Appreciation
THEA 1122	Introduction to Theater		THEA 105	Theatre Appreciation
	Social/Behav Take ECON 2200 and choo	viora ose a	al Sciences Core	ourse below:
ECON 2200	Macroeconomics (required)		ECON 105	Introductory Macroeconomics
ANTH 1101 (3)	Introduction to Anthropology		ANTH 101 (3)	Introduction to Anthropology
ANTH 1130 (3)	Cultures of the World		ANTH 130 (3)	Cultures of the World
ECON 2201 (3)	Microeconomics		ECON 106 (3)	Introductory Microeconomics
GEOG 1102 (3)	Human Geography		GEOG 102 (3)	Human Geography
PSCI 1110 (3)	The Political World		POLS 110 (3)	The Political World
PSCI 2200 (3)	US Politics		POLS 200 (3)	American Politics
PSCI 2220 (3)	Comparative Government		POLS 220 (3)	Comparative Politics
PSCI 2240 (3)	International Politics		POLS 240	International Politics
PSY 1105	Introduction to Psychology		PSY 105	General Psychology
SOC 1101 (3)	Introductory to Sociology		SOC 101 (3)	Introduction to Sociology
	Engined	ering	gElectives	
Selec	ct 12-13 credits from the courses belo	w a	ccording to your	specific Engineering major:
(6)	Accounting I		(3)	
BIO 1010 (3)	Biology for Non-Majors		BIOL 110 (3)	Biology for Non-Majors
BIO 1510 (4)	Molecular and Cell Biology		BIOL 201 (4)	Molecular and Cell Biology
CHEM 1810 (3)	General Chemistry II		CHEM 122 (3)	General Chemistry II
CHEM 1892 (1)	General Chemistry II Lab		CHEM 124L (1)	General Chemistry II Lab
³ CHEM 2710 (3)	Organic Chemistry I		³ CHEM 301/CH (3)	EM 3T Organic Chemistry I
³ CHEM 2792 (1)	Organic Chemistry I Lab		³ CHEM 303L (1)	Organic Chemistry I Lab
EPS 1101 (3)	Introduction to Geology	T	EPS 101 (3)	Introduction to Geology
ENGR 2910 (3)	Circuit Analysis I		ECE 203 (3)	Circuit Analysis I
ENGR 2915 (3)	Circuit Analysis II		ECE 213 (3)	Circuit Analysis II
³ ENGR 2710 (3)	Thermodynamics		³ ME 301 (3)	Thermodynamics
ENGR 2810 (3)	Engineering Statics		CE 202 (3)	Engineering Statics

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³ ENGR 2815 (3)	Engineering Dynamics		³ ME 306	Dynamics
⁴ MATH 2810	Applied Linear Algebra		⁴ MATH 314/MA	TH 2T Applied Linear Algebra
(3) PHVS 2710	Physics for Engineers III		(3) PHYC 262	General Physics
(4)	Thysics for Engineers in		(3)	General mysics
()			PHYC 262L	General Physics Lab
			(1)	
ENGR 2088	Engineering Specialty	(1-	CE 160	Civil Engineering Design
16)			(3)	
			CE 283	Trans Systems Measurements
			(3)	
			CE 352	Comp Apps in Civil Engr
			(3)	
			CHNE 101	Introduction to CHNE
			(1)	
			CHNE 213	Circuits for CHNE
			(3)	Dringial as of Dediction Drotesticn
			(2)	Principles of Radiation Protection
			(5) CHNE 231	Principles of Nuclear Engr
			(3)	
			CHNF 251	Chemical Process Calculations I
			(3)	
			CHNE 253	Chemical Process Calculations II
			(3)	
			CHNE 302	Chemical Engr Thermo
			(3)	
			CHNE 314	Thermo and Nuclear Systems
			(3)	
			CHNE 372 (3)	Nuclear Engr Materials
			ECE 101	Introduction to ECE
			(1)	
			ECE 206L	Electrical Engr Lab
			(2)	-
			ECE 231	Intermediate Programming
			(3)	
			ECE 238L	Computer Logic Design
		_	(3)	
			ECE 330	Software Design
		-	(3) ME 160	Machanical Engr Dosign I
			(3)	Meenanicai Liigi Desigii I
		\vdash	² ME 217	Energy, Environment and Society
			(3)	
		F	ME 260	Mechanical Engr Design II
			(3)	
			ME 318L	Mechanical Engr Lab
			(3)	
			PHYC 167	Problems in Gen Physics
			(1)	
TOTAL CREDITS	5 (1	73-	TOTAL CREDITS 70)	(69-

¹MATH 2910 at CNM satisfies MATH 316 at UNM in the Engineering major only.

²ME 217 is the required 2nd Social Science for the Mechanical Engineering program at UNM but does not fulfill the Social Behavioral Science requirement at CNM.

³This course at CNM will meet the requirement for the course at UNM, but it will not transfer as *upper division* credit.

⁴MATH 2810 at CNM satisfies MATH 314 at UNM in the Engineering majors only.

The STEM UP grant is a Title V grant funded for five years in the amount of \$3,473,005 by the Department of Education and authorized under Title III, Part F, Section 371 of the Higher Education Act of 1965 as amended, Hispanic Serving Institutions (HSI) STEM and Articulation Program Cooperative