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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Developing STEM Pathways for the Future

	Total	*Foreign Language	CE 495	CE 477	CE 455	CE 331	STAT 345	Semester Seven:	Total	CE 376	CE 350	CE 305	CE 302	CE 283	Semester Five:		lotal	Fine Arts	ENGR 2810	PHYS 1810/1892	MATH 2710	ENG 2219	Semester Three:		Total:	IT 1010	ENGR 2088	CHEM 1710/1792	MATH 1710	ENG 1101	Semester One:	Course Subject and Title Cr. Hrs. Major Core		Construction Engineering Curriculum Alignment
	17	s	1	3	33	4	33	Major Mir	16	3	3	4	3	3	Major Mir		18		ນ ເມ	5	1 4	3			17	3	3	4	4	3		Cr. Hrs. Maj	CNM	g Curriculum
	14		1 Must be Junior or Senior standing	3 Pre-req CE 376 and 377/Must be Junior or Senior standing	3 Must be Junior or Senior standing	4 Pre or Co-req CE202(CNM's ENGR 2810) and ME 302 and three lectures	3 Pre-req Math 181 or 163(CNM's Math 1465 or 1715)	Minor UDHrs Notes	13	ω	3 Pre-req Math 162 (CNM's Math 1710) / Must be Junior or Senior standing	4 Pre-req ENGL 219/(CNM's ENG 2219)/ Pre or Co-req CE 302 or 371	3 Pre-req CE 202 (CNM's ENGR 2810)/ Pre or Co-req Math 316 (CNM's 2910)	Pre-req Math 162 (CNM's 1710)	Minor UD Hrs Notes		18 6		3 CE 202/Pre-req PHYS 1710	5 PHYC 161/161L	4 MATH 264	3 3 ENGL 219			17 11	ω	3 UNM CE 160	4 4 CHEM 121/123L	4 4 MATH 162	3 SENGL 110		jor Core UNM Equivalent / Prerequisites	M	Alignment Community College
				anding		lectures					rstanding	302 or 371	VM's 2910)				_					(1)			1/		(1)		_	(1)		Major	MNN	exico ilege
B.S. Total	Total		ECE 203 or CHNE/ME 301	CE 499L	CE 475	CE 473	CE 409	Semester Eight:	Total	CE 377	CE 370	CE 360	CE 310	CE 308	Semester Six:		lotal	Humanities	ENGR 2815	CHEM 1810/1892 or EPS 1101	MATH 2910	ACCT 1110	Semester Four:		Total:	ENGR 1010	CSCI 1153	PHYS 1710/1792	MATH 1715	ENG1102	Semester Two:	Course Subject and Title		NTO
139	13		ω	ω	ω	s	1	Major Mi	17	ω	ω	4	4	3	Major Mi		15	ú	υ		, ω	ω			17	1	4	5	4	3		Cr. Hrs. Major Core	CNM	IVI »
54	10			ω	ω	w	1	Minor UDHrs Notes	17	3	3	4	4	3	Major Minor UDHrs Notes		12 6		ن ن	ω.	, <u>u</u>	ω			17 3	1	4	5	4	3 3		ajor Core	M	JRAA.
			ECE 203 offered at CNM ENGR 2910 / ME 301 Offered at CNM ENGR 2710	3 Pre-req CE 310, 331, 350 and 360/ Must be Senior standing	3 Pre-req CE 376,377 and ENGL 219(CNM's ENG 2219)/ Must be Junior or Senior	3 Pre-req CE 376,377 and ENGL 219 (CNM's ENG 2219)/ Must be Junior or Senior	Must be Senior standing	Notes			3 Pre-req CE 350/ Must be Junior or Senior standing	4 Pre-req CE 302	4 Pre or Co-req CE 308	3 Pre-req CE 302 and 305	Notes				ME 306 / Pre-req ENGR 2810 / Pre or Co-req Math 2710	CHEM 122/124L(4 Cr. Hrs) or EPS 101 (3 Cr. hrs)		MGMT202					CS 151L	PHYC 160/160L	MATH 163	3 ENGL 120		UNM Equivalent/ Prerequisites		STRONG ENGINEERING
			2710	ling	or or Senior	or or Senior											15	u	υ	u	, ω	ω			14		33	4	4	3		Major	MNN	
								*Asterisk information is noted on the Curriculum Facts.		505.277.5166	CNM/UNM Cooperative	STEM UP	Transfer Articulation Analyst	Roberto P. Vazquez		A.S. Total	lotal						Summer Semester:		Total:			Social/Behavioral	Humanities	ECON 2200	Summer Semester:	Course Subject and Title		Ć
								oted on the					alyst			76 7	0								9			3	3	3		Cr. Hrs. Maj	MNO	ď
								Curriculum Facts.								73 35	0 0								9 9			w	ω ω	3 ECON 105		Course Subject and Title Cr. Hrs. Majo Core UNM Equivalent / Notes	M	Four Year Road Map
																69	_								9			ω	ω	ω		Major	MNN	ad Map

Revised on 2.25.14 by the STEM UP Joint Advisory Council

*********IMPORTANT: To assure accuracy based on individual curriculum, student must meet with advisors at CNM and UNM. Roadmap is a suggested degree plan*********

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.

	CNM		UNM								
	A.S. Engineering		B.S. Chemical Engineering								
			B.S. Civil Engineering B.S. Computer Engineering								
			B.S. Construction Engineering								
			B.S. Electrical Engineering								
			B.S. Mechanical Engineering								
_			B.S. Nuclear Engineering								
	•	Eng	ineering Courses								
ENGR 1010	Survey of Engineering		Not required for Engineering majors at UNM, but								
(1) IT 1010	Introduction to Computers		meets A.S. requirement at CNM								
(3)	introduction to computers										
	Computer Engineering Majors		For Electrical & Computer Engineering Majors only:								
only:	, , , , , , , , , , , , , , , , , , ,		ECE 131 Programming Fundamentals								
CSCI 1151	Intro to Programming for Non-		(3)								
	Majors										
	(4)		OR								
	OR		For all other Engineering Majors:								
	gineering Majors:		CS 151L Computer Programming								
CSCI 1153	Programming in MATLAB		Fundamentals for Non-Majors (3)								
(4)	Mathan		cs Courses								
Math placemen			T or SAT scores. Speak with your STEM advisor to find								
=	h course(s) you may need to complete										
MATH 1710	Calculus I		MATH 162 Calculus I								
(4)			(4)								
MATH 1715	Calculus II		MATH 163 Calculus II								
(4)			(4)								
MATH 2710	Calculus III		MATH 264 Calculus III								
(4)			(4)								
¹ MATH 2910	Applied Ordinary Diff Equations		¹ MATH 316/MATH 2T Applied Ord Diff Equations								
(3) See your STE	EM Advisor about this course.		(3)								
			See your STEM Advisor about this course.								

	Scier	ice (Courses							
	Take the Chemistry and Physic			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						
(1)	·		(1)	·						
PHYS 1810	Physics for Scientists II		PHYC 161	General Physics II						
(4)			(3)							
PHYS 1892	Physics for Scientists II Lab		PHYC 161L	General Physics II Lab						
(1)			(1)							
	Commu	nica	tions Core							
ENG 1101	College Writing		ENGL 101	Composition I: Exposition						
(3)		1	(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	anit	ies Core							
	Choose two courses below	v fro	om two differen	t disciplines:						
ENG 2262	Survey of Early World Lit		ENGL 292	World Lit: Ancient to 16 th C						
(3)			(3)							
ENG 2263	Survey of Later World Lit		ENGL 293	World Lit: 17 th Century-Pres						
(3)			(3)							
HIST 1101 or H	IUM 1111 Western Civilization I		HIST 101L	Western Civilization to 1648						
(3)			(3)							
HIST 1102 or H	IUM 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)	<u> </u>	-	(3)	<u> </u>						
RLGN 1107	Living World Religions		RELG 107	Living World Religions						
(3)			(3)							
RLGN 2263	Eastern Religions		RELG 263	Eastern Religions						
(3)			(3)							
Fine Arts Core Choose one course below:										
ADTIL 4404		ie co		Industrial to Ant						
ARTH 1101	Introduction to Art		ARTH 101	Introduction to Art						
(3)	History, of Aut.	-	(3)	History of Aut I						
ARTH 2201	History of Art I		ARTH 201	History of Art I						
(3)	History, of Aut II	-	(3)	History of Aut II						
ARTH 2202	History of Art II		ARTH 202	History of Art II						
(3)	Film on Libourtus	-	(3)	Introduction to Film Charles						
ENG 2210	Film as Literature		MA 210	Introduction to Film Studies						
(3)			(3)							

NAUC 4420	Fault Marris Augus sisting		NAUC 420	NAi. Annan sistina									
MUS 1139	Early Music Appreciation		MUS 139	Music Appreciation									
(3)	later deserting to Thomas		(3)	The sales Assessed in the sales									
THEA 1122	Introduction to Theater		THEA 105	Theatre Appreciation									
(3)	0 11/01	<u> </u>	(3)										
			al Sciences Core	balance									
	Take ECON 2200 and cho	ose c											
ECON 2200	Macroeconomics (required)		ECON 105	Introductory Macroeconomics									
(3)			(3)										
ANTH 1101	Introduction to Anthropology		ANTH 101	Introduction to Anthropology									
(3)			(3)										
ANTH 1130	Cultures of the World		ANTH 130	Cultures of the World									
(3)			(3)										
ECON 2201	Microeconomics		ECON 106	Introductory Microeconomics									
(3)			(3)										
GEOG 1102	Human Geography		GEOG 102	Human Geography									
(3)	TI B III 1147 11		(3)	#L 5 19: 14/ 11									
PSCI 1110	The Political World		POLS 110	The Political World									
(3)	US Politics	-	(3) POLS 200	American Delities									
PSCI 2200	US POlitics			American Politics									
(3) PSCI 2220	Comparative Government	+	(3) POLS 220	Comparative Politics									
	Comparative dovernment		(3)	Comparative Politics									
(3) PSCI 2240	International Politics		POLS 240	International Politics									
(3)	international Folitics		(3)	international Politics									
PSY 1105	Introduction to Psychology	+	PSY 105	General Psychology									
(3)	introduction to r sychology		(3)	General i sychology									
SOC 1101	Introductory to Sociology		SOC 101	Introduction to Sociology									
(3)	introductory to sociology		(3)	introduction to sociology									
	Enaine	erino	g Electives										
Selec	Select 12-13 credits from the courses below according to your specific Engineering major:												
ACCT 1110	Accounting I		MGMT 202	Principles of Financial Acctg									
(6)			(3)										
BIO 1010	Biology for Non-Majors		BIOL 110	Biology for Non-Majors									
(3)			(3)										
BIO 1510	Molecular and Cell Biology		BIOL 201	Molecular and Cell Biology									
(4)			(4)										
CHEM 1810	General Chemistry II		CHEM 122	General Chemistry II									
(3)			(3)										
CHEM 1892	General Chemistry II Lab		CHEM 124L	General Chemistry II Lab									
(1)			(1)										
³ CHEM 2710	Organic Chemistry I			EM 3T Organic Chemistry I									
(3)			(3)										
³ CHEM 2792	Organic Chemistry I Lab		³ CHEM 303L	Organic Chemistry I Lab									
(1)		+	(1)										
EPS 1101	Introduction to Geology		EPS 101	Introduction to Geology									
(3)	C: :: A		(3)	6:									
ENGR 2910	Circuit Analysis I		ECE 203	Circuit Analysis I									
(3)	Circuit Applicaia II	+	(3)	Circuit Anglesia II									
ENGR 2915	Circuit Analysis II		ECE 213	Circuit Analysis II									
(3) ³ ENGR 2710	Thormodynamics	-	(3) ³ ME 301	Thormodynamics									
	Thermodynamics			Thermodynamics									
(3) ENGR 2810	Engineering Statics	+	(3) CE 202	Engineering Statics									
	Engineering Statics			Engineering Statics									
(3)			(3)										

³ ENGR 2815	Engineering Dynamics		³ ME 306	Dynamics
(3)	The state of the s		(3)	_ ;
⁴ MATH 2810	Applied Linear Algebra			ATH 2T Applied Linear Algebra
(3)			(3)	
PHYS 2710	Physics for Engineers III		PHYC 262	General Physics
(4)			(3)	Caracal Blassica L.
			PHYC 262L	General Physics Lab
ENGR 2088	Engineering Specialty	(1-	(1) CE 160	Civil Engineering Design
16)	Linginizering Specialty	(1-	(3)	Civil Eligineering Design
		-	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) CHNE 230	Principles of Radiation Protection
			(3)	Finiciples of Nadiation Frotection
		-	CHNE 231	Principles of Nuclear Engr
			(3)	S P
		-	CHNE 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)	mermo and Nuclear Systems
		-	CHNE 372	Nuclear Engr Materials
			(3)	0
		-	ECE 101	Introduction to ECE
		_	(1)	
			ECE 206L	Electrical Engr Lab
		=	(2)	
			ECE 231	Intermediate Programming
		-	(3) ECE 238L	Computer Logic Design
			(3)	Computer Logic Design
		-	ECE 330	Software Design
			(3)	
		=	ME 160	Mechanical Engr Design I
		_	(3)	
			² ME 217	Energy, Environment and Society
		-	(3)	
			ME 260	Mechanical Engr Design II
		-	(3) ME 318L	Machanical Engr Lab
			(3)	Mechanical Engr Lab
		-	PHYC 167	Problems in Gen Physics
			(1)	
TOTAL CREDITS	5	(73-	TOTAL CREDIT	S (69-
74)			70)	
NAATU 2010 -+ C	NM satisfies MATH 316 at UI	10.4 : +1	F111	l.

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

