

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 and 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 before 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 A.S. Engineering		UNM 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	
Computer and Engineering Courses			
ENGR 1010	Survey of Engineering	(1)	Not required for Engineering majors at UNM, but meets A.S. requirement at CNM
IT 1010	Introduction to Computers	(3)	
For Electrical & Computer Engineering Majors only:		For Electrical & Computer Engineering Majors only:	
CSCI 1151	Intro to Programming for Non-Majors	(4)	ECE 131 Programming Fundamentals (3)
OR		OR	
For all other Engineering Majors:		For all other Engineering Majors:	
CSCI 1153	Programming in MATLAB	(4)	CS 151L Computer Programming Fundamentals for Non-Majors (3)
Mathematics Courses			
Math placement is determined by Accuplacer exam, ACT or SAT scores. Speak with your STEM advisor to find out which Math course(s) you may need to complete <i>BEFORE</i> taking Calculus.			
MATH 1710	Calculus I	(4)	MATH 162 Calculus I (4)
MATH 1715	Calculus II	(4)	MATH 163 Calculus II (4)
MATH 2710	Calculus III	(4)	MATH 264 Calculus III (4)
¹ MATH 2910	Applied Ordinary Diff Equations	(3)	¹ MATH 316/MATH 2T Applied Ord Diff Equations (3)
See your STEM Advisor about this course.		See your STEM Advisor about this course.	
Science Courses			
Take the Chemistry and Physics course sequences as listed below:			
CHEM 1710	General Chemistry I	(3)	CHEM 121 General Chemistry I (3)
CHEM 1792	General Chemistry I Lab	(1)	CHEM 123L General Chemistry I Lab (1)
PHYS 1710	Physics for Scientists I	(4)	PHYC 160 General Physics I (3)
PHYS 1792	Physics for Scientists I Lab	(1)	PHYC 160L General Physics I Lab (1)
PHYS 1810	Physics for Scientists II	(4)	PHYC 161 General Physics II (3)
PHYS 1892	Physics for Scientists II Lab	(1)	PHYC 161L General Physics II Lab (1)
Communications Core			

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ENG 1101	College Writing	(3)	ENGL 101	Composition I: Exposition	(3)
ENG 1102	Analytic & Argumentative Writ	(3)	ENGL 102	Composition II: Analysis & Argum	(3)
ENG 2219	Technical Communications	(3)	ENGL 219	Technical Writing	(3)
Humanities Core					
Choose two courses below from two different disciplines:					
ENG 2262	Survey of Early World Lit	(3)	ENGL 292	World Lit: Ancient to 16 th C	(3)
ENG 2263	Survey of Later World Lit	(3)	ENGL 293	World Lit: 17 th Century-Pres	(3)
HIST 1101 or HUM 1111	Western Civilization I	(3)	HIST 101L	Western Civilization to 1648	(3)
HIST 1102 or HUM 1112	Western Civilization II	(3)	HIST 102L	Western Civilization Post 1648	(3)
HIST 1161	History of the United States I	(3)	HIST 161	History of the U.S. to 1877	(3)
HIST 1162	History of the United States II	(3)	HIST 162	History of the U.S. Since 1877	(3)
HIST 1182	Modern Latin American History	(3)	HIST 182	Modern Latin American History	(3)
PHIL 1110	Intro. to Philosophical Thought	(3)	PHIL 101	Introduction to Philosophy	(3)
RLGN 1107	Living World Religions	(3)	RELG 107	Living World Religions	(3)
RLGN 2263	Eastern Religions	(3)	RELG 263	Eastern Religions	(3)
Fine Arts Core					
Choose one course below:					
ARTH 1101	Introduction to Art	(3)	ARTH 101	Introduction to Art	(3)
ARTH 2201	History of Art I	(3)	ARTH 201	History of Art I	(3)
ARTH 2202	History of Art II	(3)	ARTH 202	History of Art II	(3)
ENG 2210	Film as Literature	(3)	MA 210	Introduction to Film Studies	(3)
MUS 1139	Early Music Appreciation	(3)	MUS 139	Music Appreciation	(3)
THEA 1122	Introduction to Theater	(3)	THEA 105	Theatre Appreciation	(3)
Social/Behavioral Sciences Core					
Take ECON 2200 and choose one additional course below:					
ECON 2200	Macroeconomics (required)	(3)	ECON 105	Introductory Macroeconomics	(3)
ANTH 1101	Introduction to Anthropology	(3)	ANTH 101	Introduction to Anthropology	(3)
ANTH 1130	Cultures of the World	(3)	ANTH 130	Cultures of the World	(3)
ECON 2201	Microeconomics	(3)	ECON 106	Introductory Microeconomics	(3)
GEOG 1102	Human Geography	(3)	GEOG 102	Human Geography	(3)
PSCI 1110	The Political World	(3)	POLS 110	The Political World	(3)
PSCI 2200	US Politics	(3)	POLS 200	American Politics	(3)
PSCI 2220	Comparative Government	(3)	POLS 220	Comparative Politics	(3)
PSCI 2240	International Politics	(3)	POLS 240	International Politics	(3)
PSY 1105	Introduction to Psychology	(3)	PSY 105	General Psychology	(3)
SOC 1101	Introductory to Sociology	(3)	SOC 101	Introduction to Sociology	(3)
Engineering Electives					
Select 12-13 credits from the courses below according to your specific Engineering major:					
ACCT 1110	Accounting I	(6)	MGT 202	Principles of Financial Acctg	(3)
BIO 1010	Biology for Non-Majors	(3)	BIOL 110	Biology for Non-Majors	(3)
BIO 1510	Molecular and Cell Biology	(4)	BIOL 201	Molecular and Cell Biology	(4)
CHEM 1810	General Chemistry II	(3)	CHEM 122	General Chemistry II	(3)
CHEM 1892	General Chemistry II Lab	(1)	CHEM 124L	General Chemistry II Lab	(1)
³ CHEM 2710	Organic Chemistry I	(3)	³ CHEM 301/CHEM 3T	Organic Chemistry I	(3)
³ CHEM 2792	Organic Chemistry I Lab	(1)	³ CHEM 303L	Organic Chemistry I Lab	(1)
EPS 1101	Introduction to Geology	(3)	EPS 101	Introduction to Geology	(3)
ENGR 2910	Circuit Analysis I	(4)	ECE 203	Circuit Analysis I	(3)
ENGR 2915	Circuit Analysis II	(3)	ECE 213	Circuit Analysis II	(3)
³ ENGR 2710	Thermodynamics	(3)	³ ME 301	Thermodynamics	(3)
ENGR 2810	Engineering Statics	(3)	CE 202	Engineering Statics	(3)
³ ENGR 2815	Engineering Dynamics	(3)	³ ME 306	Dynamics	(3)
⁴ MATH 2810	Applied Linear Algebra	(3)	⁴ MATH 314/MATH 2T	Applied Linear Algebra	(3)
PHYS 2710	Physics for Engineers III	(4)	PHYC 262	General Physics	(3)

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ENGR 2088	Engineering Specialty	(1-16)	PHYC 262L	General Physics Lab	(1)
			CE 160	Civil Engineering Design	(3)
			CE 283	Trans Systems Measurements	(3)
			CE 352	Comp Apps in Civil Engr	(3)
			CHNE 101	Introduction to CHNE	(3)
			CHNE 213	Circuits for CHNE	(3)
			CHNE 230	Principles of Radiation Protection	(3)
			CHNE 231	Principles of Nuclear Engr	(3)
			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)
			CHNE 372	Nuclear Engr Materials	(3)
			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	Mechanical Engr Design I	(3)
			² ME 217	Energy, Environment and Society	(3)
ME 260	Mechanical Engr Design II	(3)			
ME 318L	Mechanical Engr Lab	(3)			
PHYC 167	Problems in Gen Physics	(1)			
TOTAL CREDITS		(73-74)	TOTAL CREDITS		(69-70)

¹MATH 2910 at CNM is equivalent to 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 is equivalent to MATH 314 at UNM in the Engineering major only.

STEM UP is a Title V grant, funded for five years in the amount of \$3.5 million by the U.S. Department of Education and authorized under the Title III, Part F, section 371 of Higher Education Act of 1965 as amended, Hispanic-Serving Institutions (HSI) STEM and Articulation Program Cooperative.