



**ARTICULATION TRANSFER MATRIX BETWEEN
MESALAND COMMUNITY COLLEGE
AND
NORTHERN NEW MEXICO COLLEGE**



MCC Associate in Applied Science in Pre-Engineering			NNMC BEng ElectroMechanical Engineering Technology		
General Education Requirements			MCC students who earn an Associate in Applied Science degree in Pre-Engineering as prescribed in this document will receive a minimum of 46 credits toward the BEng degree in Electromechanical Engineering Technology. Any deviation from this prescribed agreement will require appropriate approval from MCC and NNMC.		
Area I. Communications - 3 credits			Area I. Communications - 3 credits		
ENGL 1110	Composition I	3	ENGL 1210	Technical Communications	3
Area III. Laboratory Sciences - 4 credits			Area II. Mathematics - 3 credits		
CHEM 1215C	General Chemistry I	4	ENGR 1121L	Introductory Math for Engineering Applications I	3
Area IV Social/Behavioral Sciences - 3 credits			Additional - 6 credits		
Area V Humanities - 3 credits			Civics Courses (3)		
Area VI Fine Arts - 3 credits			STEMH Courses (3)		
Additional 3 credit			Support Courses - 14 credits		
COM 1130	Public Speaking	3	ENGR 1122L	Introductory Math for Engineering Applications II	3
			ENGR 2216L	Physics for Engineers II	3
			ENGR 2217L	Physics for Engineers III	3
Core Requirements - 23 credits			Program Requirements (56 Credits)		
CHEM 1225C	General Chemistry II	4	CAD 1100	Engineering Drawing and Computer Aided Design	3
MATH 162	Calculus I	4	CAD 2200	Intermediate Engineering Drawing and Computer Aided	3
MATH 163	Calculus II	4	ENGR 1110L	Introduction to Engineering	3
PHYS 1230C	Algebra-based Physics I	4	EET 2200L	Electrical Systems I with Lab	3
PHYS 1115C	Survey of Physics with Lab	4	EET 3300L	Electrical Systems II with Lab	3
CIS	Computer Science Elective	3	EET 4400L	Control Systems and Instrumentation with Lab	3
PHYS 1240C	Algebra-based Physics II	4	EMET 4400	Advanced Electro-Mechanical Design	3
Total AS Credits		46	MET 2201	Applied Mechanics I	3
			MET 3301	Applied Mechanics II	3
			MET 3310	Manufacturing Processes and Automation	3
			MET 3302	Strength of Properties and Materials	3
			MET 3303	Thermodynamics	3
			MET 3317	Fluid Mechanics	3
			MATH 2296/316	Intro to Ordinary Diff. Equ. OR Ordinary Diff. Equ.	3
			EMET 4402	Robotics	3
			MET 4421	Heat Transfer	3
			ENGR 4480	Engineering Management and Project Management	3
			EMET 4490	Capstone (WIC)	3
				Upper Division Elective	3
				Upper Division Elective	3
			Transfer from MCC AS Degree		46
			Other MCC transfer credits		0
			Other NNMC BEng technical program requirements		60
			Other NNMC BEng requirements		9
			Other NNMC Gened requirements		9
			Total Credit Hours		124

SIGNATURES AND DATE Mesalands Community College		SIGNATURES AND DATE Northern New Mexico College Valid through 2023 Engineering and Technology	
Department		Department	
Department Chair	Date	Department Chair	Date
Dean	Date	Chair <i>Sadia Ahmed, 02/10/23</i>	Date
VPAA	Date	VPAA	Date