



**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			
<b>General Education Requirements</b>			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.			
<b>Area I. Communications - 3 credits</b>			<b>Area I. Communications - 3 credits</b>			
ENGL 1110	Composition I	3	ENGL 1210	Technical Communications	3	
<b>Area III. Laboratory Sciences - 4 credits</b>			<b>Area II. Mathematics - 3 credits</b>			
CHEM 1215C	General Chemistry I	4	ENGR 1121L	Introductory Math for Engineering Applications I	3	
<b>Area IV Social/Behavioral Sciences - 3 credits</b>			<b>Additional - 6 credits</b>			
<b>Area V Humanities - 3 credits</b>			Civics Courses (3)			
<b>Area VI Fine Arts - 3 credits</b>			STEMH Courses (3)			
<b>Additional 3 credit</b>			<b>Support Courses - 14 credits</b>			
COM 1130	Public Speaking	3	ENGR 1122L	Introductory Math for Engineering Applications II	3	
<b>Core Requirements - 23 credits</b>			ENGR 2216L	Physics for Engineers II	3	
CHEM 1225C	General Chemistry II	4	ENGR 2217L	Physics for Engineers III	3	
MATH 162	Calculus I	4	<b>Program Requirements (56 Credits)</b>			
MATH 163	Calculus II	4	CAD 1100	Engineering Drawing and Computer Aided Design	3	
PHYS 1230C	Algebra-based Physics I	4	CAD 2200	Intermediate Engineering Drawing and Computer Aided	3	
PHYS 1115C	Survey of Physics with Lab	4	ENGR 1110L	Introduction to Engineering	3	
CIS	Computer Science Elective	3	EET 2200L	Electrical Systems I with Lab	3	
PHYS 1240C	Algebra-based Physics II	4	EET 3300L	Electrical Systems II with Lab	3	
<b>Total AS Credits</b>			46	EET 4400L	Control Systems and Instrumentation with Lab	3
				EMET 4400	Advanced Electro-Mechanical Design	3
				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
					<b>Transfer from MCC AS Degree</b>	<b>46</b>
					<b>Other MCC transfer credits</b>	<b>0</b>
					<b>Other NNMC BEng technical program requirements</b>	<b>60</b>
					<b>Other NNMC BEng requirements</b>	<b>9</b>
					<b>Other NNMC GenEd requirements</b>	<b>9</b>
					<b>Total Credit Hours</b>	<b>124</b>

<b>SIGNATURES AND DATE</b> Mesalands Community College	
Department	
Department Chair	Date
Dean	Date
VPAA	Date

<b>SIGNATURES AND DATE</b> Northern New Mexico College Valid through 2023 Engineering and Technology	
Department Chair	Date
Chair	Date
VPAA	Date
President	Date

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



MCC Associate in Applied Science in Wind Energy Technology			NNMC BEng ElectroMechanical Engineering Technology		
<b>General Education Requirements</b>			MCC students who earn an Associate in Applied Science degree in Wind Energy Technology as prescribed in this document will receive a minimum of 39 credits toward the BEng degree in Electromechanical Engineering Technology. Any deviation from this prescribed agreement will require appropriate approval from MCC and/or NNMC.		
<b>Area I. Communications - 6 credits</b>			<b>Area II. Mathematics - 3 credits</b>		
ENG 102	English Composition	3	ENGR 1121L	Introductory Math for Engineering Applications I	3
ENG 233	Professional and Technical Writing	3		<b>Area V Humanities - 3 credits</b>	
<b>Area III. Laboratory Sciences - 4 credits</b>				<b>Area V Course (3)</b>	3
GFOL 141	Introduction to Environmental Science	4		<b>Area VI Fine Arts - 3 credits</b>	
<b>Area IV Social/Behavioral Sciences - 3 credits</b>				<b>Area VI Course (3)</b>	3
HPE 128	Individual Health and Conditioning	3		<b>Additional - 6 credits</b>	
<b>Additional 3 credit</b>				Civics Courses (3)	3
COM 102	Public Speaking	3		STEMH Courses (3)	3
<b>Core Requirements - 23 credits</b>				<b>Support Courses - 14 credits</b>	
			MATH 1510	Calculus I	4
WET 101	Introduction to Wind Energy	3	MATH 1520	Calculus II	4
WET 106	Electrical Theory for Renewable Energy	4	ENGR 1122L	Introductory Math for Engineering Applications II	3
			ENGR 2215	Physics for Engineers I	3
WET 116	Introduction to Motors and Generator	3	ENGR 2216L	Physics for Engineers II	3
			ENGR 2217L	Physics for Engineers III	3
WET 140, 141, 240			Wind Turbine Climbing and Safety I, II, III	3	<b>Program Requirements (56 Credits)</b>
WET 2014	Introduction to Hydraulics	3	CAD 1100	Engineering Drawing and Computer Aided Design Fundamentals	3
WET 121	Wind Turbine Mechanical Systems	3	CAD 2200	Intermediate Engineering Drawing and Computer Aided Design	3
WET 219	Wind Turbine Operations, Maintenance, and Repair	4	EET 3300L	Electrical Systems II with Lab	3
<b>Total AS Credits</b>			EET 4400L	Control Systems and Instrumentation with Lab	3
			EMET 4400	Advanced Electro-Mechanical Design	3
			MET 2201	Applied Mechanics I	3
			MET 3301	Applied Mechanics II	3
			EEC 1152L	Computer Programming I	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	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 (W/C)	3
				Upper Division Elective	3
				<b>Transfer from MCC AS Degree</b>	<b>39</b>
				<b>Other MCC transfer credits</b>	<b>0</b>
				<b>Other NNMC BEng technical program requirements</b>	<b>54</b>
				<b>Other NNMC BEng requirements</b>	<b>20</b>
				<b>Other NNMC Gened requirements</b>	<b>15</b>
				<b>Total Credit Hours</b>	<b>128</b>

**SIGNATURES AND DATE**  
Mesalands Community College

Department \_\_\_\_\_

Chair \_\_\_\_\_ Date \_\_\_\_\_

Dean \_\_\_\_\_ Date \_\_\_\_\_

VPAA \_\_\_\_\_ Date \_\_\_\_\_

**SIGNATURES AND DATE**  
Northern New Mexico College  
Valid through 2023  
Engineering and Technology

Department \_\_\_\_\_

Chair *[Signature]* 7/27/23 Date \_\_\_\_\_

Chair *[Signature]* Date \_\_\_\_\_

VPAA *[Signature]* 7/27/23 Date \_\_\_\_\_

President *[Signature]* Date \_\_\_\_\_