

TRANSFER GUIDE - ASSOCIATE DEGREE PROGRAMS NTC Program: ELECTROMECHANICAL

Michigan Tech Program: Electrical Engineering Technology Minimum GPA for admission:3.0 to qualify for in-state tuition Initial effective date:

General Education Courses

NTC			Michigan Tech		
Course No.	Course Title	Credits	Course No.	Course Title/Field	Credits
10-804-195	College Algebra with Apps (3 cr.) <u>OR</u>	3 or 4	MA 1030	College Algebra I	3
10-804-118	Intermediate Algebra with Apps (4 cr.)	5014			
10-806-154	General Physics 1	4	PH 1110/11	College Physics 1 & Lab	4
10-806-144	College Physics 2	3		Credits will not apply to degree requirements	
10-801-196	Oral/Interpersonal Communication	3	HU 2830	Public Speaking & Multimedia	3
10-801-195	Written Communication OR	3	UN 1015	Composition - Core	3
10-801-136	English Composition 1	5	011 1013		5
10-809-172	Intro to Diversity <u>OR</u>	3	UN 1025	Global Issues <u>OR</u>	3
10-809-196	Intro to Sociology	5	SS 2700	Intro to Sociology	5
10-800-108	Intro to Psychology	3	PSY 2000	Intro to Psychology - Soc.Resp & Ethical	3
10-009-190		5		Reasoning	5
	Total General Education credits earned	22-23			
	Total transferable general education credits:	19		Total general education credits accepted:	19

Occupational Courses					
Course No.	Course Title	Credits	Course No.	Course Title	Credits
10-612-120	Fluid Power Systems 1: Fundamentals	1			
10-612-121	Fluid Power Systems 2: Fundamentals of Pneumatics	1	EET 3390	Power Systems	3
10-620-172	Industry Workplace Safety	1			
10-660-123	Industrial Ele Tech 1- Direct Current Ele Characteristics	1			
	Industrial Ele Tech 2- Alternating Current Ele Characteristics	1	EET 1121	Circuits 1	3
10-660-125	Industrial Ele Tech 3- Electronic Circuits and Devices	1			
10-620-157	Mechanical Systems 1: Basic Machine Comp	1			
10-620-158	Mechanical Systems 2: Power Trans Systems	1	EET 2233	Electrical Machinery	4
10-620-159	Industrial Motors 1: Electric Motors	1			4
10-620-160	Industrial Motors 2: DC/AC Var Speed Motor Dr	1			
10-620-164	PLC 1: PLC Fundamentals And Bit Based Instruction	1			
10-620-165	PLC 2: Timers, Counters, And Program Control	1	EET 3373	Introduction to Programmable Controllers	3

	Total transferable credits:	45		Total credits accepted at MTU:	45
	Total credits required for graduation:	61-62			
	Total occupational course credits earned:	38		Total occupational course credits accepted:	26
	PLC 6: PLC, PAC And PC Automation Integration	1			
	PLC 5: Industrial Networking	1			
10-620-163	Servo Systems 3: Advanced Position Control & Integration	1			
		1			
	PLC 4: Advanced Instructions & Programming	1			
	Electromechanical Troubleshooting	1	1		
	Servo Sys 2: Motion Control Systems	1	1		
		1	1		
	Robot App 2: Robotic System Comp & Software	1	1		
10-620-154	Robot App 1: Fundamentals of Robotic Control	1		,	
	Intro to Machine Shop	2	EET 2XXE	technical credits & 4 free credits)	10
	Industrial Ele Tech 6- Advanced Digital Concepts	1		EET Technical Electives (6	
	Industrial Ele Tech 5- Advanced Electrical Characteristics	1	-		
	Industrial Ele Tech 4- Electrical Systems	1			
	Machine Control 3: Sensors & Machine Safety	1	-		
	Machine Control 2: Motor & Actuator Control	1	-		
	Machine Control 1: Ladder Logic Fund	1	-		
	Intro to Microcontrollers		-		
		1	_		
		1			
10-660-118 10-620-171	Electrical Fabrication AutoCAD for Technicians OR	1			
	Electromechanical Projects	3	EET 3281	Electrical Project Development & Troubleshooting	3
	PLC 3: Data, Math, Sequencer And Shift Instructions	1			0

Courses needed to complete degree at MTU:

Course No.	Credits	
	Cocurricular	3
	GE - Core/HASS	12
	GE - Math and Science (includes EET 2150)	20
	Capstone	6
EET 1122	Circuits 1 Lab	1
EET 2121	Circuits 2	3
EET 2122	Circuits 2 Lab	1

EET 4373	Advanced Programmable Controllers	4
EET 4253 OSM 4300	Data Acquisition and Signal Processing Project Management	3
EET 4144	Real Time Robotics Systems	4
CS 1111	Intro to Programming in C/C++	3
EET 3225	Analog Electronic Circuits	4
EET 3131	Sensors and Instrumentation	3
EET 2413	Data Communications	3
EET 2142	Digital Design & Modeling Using VHDL	3
SAT 1610	Intro to Business Programming OR Computer and Operating Systems Architecture	3
EET 2411 MIS 2100	Digital Electronics	3

Additional credits to take at NTC to transfer:

Course No.	Course Title	Credits	Course No.	Course Title	Credits
10-804-189	Statistics	3	MA 3710	Engineering Statistics	3
10-804-196	Trigonometry with Apps	3	MA 1031	College Algebra 2 with Trig (3cr)	3
10-804-198	Calculus 1	4	MA 1160	Calculus with Technology 1	4
10-804-199	Calculus 2	4	MA 2160	Calculus with Technology 2	4
10-154-100	Troubleshooting	3	SAT 1610	Computer and Operating Systems Architecture	3
10-152-501	Programming Concepts A	1			
	Programming Concepts B	1	CS 1111	Intro to Programming in C/C++	3
10-152-503	Programming Concepts C	1			
10-196-188	Project Management	3	OSM 4300	Project Management	3
	Total additional transferable credits:	23		Total additional credits accepted at MTU:	23

Remaining courses needed to complete degree at MTU:

Course No.	Course No. Course Title				
	Cocurricular (3 units required for graduation)	3			
	Technical Electives	0			
	Free Elective	0			
	GE - HASS	12			
EET 2150	GE - Math and Science	6			

	Capstone	6		
EET 1122	Circuits 1 Lab	1		
EET 2121	Circuits 2	3		
EET 2122	Circuits 2 Lab	1		
EET 2411	Digital Electronics	3		
EET 2142	Digital Design & Modeling Using VHDL	3		
EET 2413	Data Communications	3		
EET 3131	Sensors and Instrumentation	3		
EET 3225	Analog Electronic Circuits	4		
EET 4144	Real Time Robotics Systems	4		
EET 4253	Data Acquisition and Signal Processing	3		
EET 4373	Advanced Programmable Controllers	4		
EET 4999	Professional Practice Seminar	1		
Total credits needed at MTU to complete degree:				
Total credits at MTU for complete degree:				

Disclaimer: Students planning to transfer should contact NTC's Transfer Specialist and transfer personnel at MTU for the most current transfer information.

Updated on: 1/16/23