



TRANSFER GUIDE - ASSOCIATE DEGREE PROGRAMS

NTC Program: ELECTROMECHANICAL

UW-Oshkosh Program: Electrical Engineering Technology

Minimum GPA for admission: 2.0

Initial effective date: June 2019

General Education Courses

NTC			UW-Oshkosh		
Course No.	Course Title	Credits	Course No.	Course Title/Field	Credits
10-804-195	College Algebra with Apps (3 cr.) <u>OR</u>	3 to 4	MATH 104	College Algebra	3
10-804-118	Intermediate Algebra with Apps (4 cr.)				
10-806-154	General Physics 1	4	PHYS 171	General Physics	4
10-806-144	College Physics 2	3	PHYS 172	General Physics II	3
10-801-196	Oral/Interpersonal Comm	3	COMM 111	Intro to Public Speaking	3
10-801-195	Written Communication <u>OR</u>	3	WGIS 188	Writing Based Inquiry Seminar	3
10-801-136	English Composition 1				
10-809-172	Intro to Diversity <u>OR</u>	3	SOC 1	Elective Credit	3
10-809-196	Intro to Sociology		SOC 101	Intro to Sociology	
10-809-198	Intro to Psychology <u>OR</u>	3	PSYCH 101	General Psychology	3
10-809-199	Psychology of Human Relations		PSYCH 1	Elective Credit	
Total general education credits earned:		22-23			
Total transferable general education credits:		22	Total general education credits accepted:		22

Occupational Courses

Course No.	Course Title	Credits	Course No.	Course Title	Credits
10-660-118	Electrical Fabrication	1	EGRT 1	Elective Credit	1
10-612-120	Fluid Power Systems 1: Fundamentals	1	EGRT 1	Elective Credit	1
10-612-121	Fluid Power Systems 2: Fundamentals of Pneumatics	1	EGRT 1	Elective Credit	1
10-620-172	Industry Workplace Safety	1	EGRT 1	Elective Credit	1
10-606-133	Solidworks 1	1	EGRT 105	Fundamentals of Drawing (3 cr)	2
10-620-171	AutoCAD for Technicians	1			
10-660-123	Industrial Ele Tech 1- Direct Current Ele Characteristic	1	EGRT 130	Basic Electrical Circuits 1 (4 cr)	4
10-660-124	Industrial Ele Tech 2- Alternating Current Ele Characte	1			
10-660-125	Industrial Ele Tech 3- Electronic Circuits and Devices	1			
10-660-126	Industrial Ele Tech 4- Electrical Systems	1			
10-660-121	Intro to Microcontrollers	1	EGRT 1	Elective Credit	1
10-620-151	Machine Control 1: Ladder Logic Fund	1	EGRT 1	Elective Credit	1

10-620-152	Machine Control 2: Motor & Actuator Control	1	EGRT 1	Elective Credit	1
10-620-153	Machine Control 3: Sensors & Machine Safety	1	EGRT 1	Elective Credit	1
10-620-157	Mechanical Systems 1: Basic Machine Comp	1	EGRT 1	Elective Credit	1
10-620-158	Mechanical Systems 2: Power Trans Systems	1	EGRT 1	Elective Credit	1
10-620-159	Industrial Motors 1: Electric Motors	1	EGRT 320	Motors & Drives (4 cr)	4
10-620-160	Industrial Motors 2: DC/AC Var Speed Motor Dr	1			
10-620-161	Servo Sys 1: Fund of Position Control	1			
10-620-162	Servo Sys 2: Components & Systems	1			
10-620-163	Servo Sys 3: Auto Pos Control Sys Interfacing	1	EGRT 1	Elective Credit	1
10-660-127	Industrial Ele Tech 5- Advanced Electrical Characterist	1	EGRT 1	Elective Credit	1
10-660-128	Industrial Ele Tech 6- Advanced Digital Concepts	1	EGRT 1	Elective Credit	1
10-420-101	Intro to Machine Shop	2	EGRT 1	Elective Credit	2
10-620-154	Robot App 1: Fundamentals of Robotic Control	1	EGRT 1	Elective Credit	1
10-620-155	Robot App 2: Robotic System Comp & Software	1	EGRT 1	Elective Credit	1
10-620-164	PLC 1: PLC Fundamentals And Bit Based Instruction	1	EGRT 240	Logic & Control Devices (3 cr)	3
10-620-165	PLC 2: Timers, Counters, And Program Control	1			
10-620-166	PLC 3: Data, Math, Sequencer And Shift Instructions	1			
10-620-167	PLC 4: Advanced Instructions	1	EGRT 260	Advanced PLCs (3 cr)	3
10-620-168	PLC 5: Industrial Networking	1			
10-620-169	PLC 6: PLC, PAC And PC Automation Integration	1			
10-442-101	Intro to Welding	2	EGRT 1	Elective Credit	2
10-620-145	Electromechanical Projects	3	EGRT 390	Mechatronics (4 cr)	3
	Total occupational course credits earned:	38		Total occupational course credits accepted:	38
	Total credits required for graduation:	60-61			
	Total transferable credits:	60		Total credits accepted at UW-Oshkosh:	60

Additional Classes to take to transfer to UW-Oshkosh:

Courses needed to complete degree at UW-Oshkosh:

Course No.	Course Title	Credits	Course No.	Course Title	Credits
				History Course	3
				Ethnic Studies Course	3
10-809-166	Intro to Ethics: Theory & App	3		Humanities Courses	6
				English Literature	3
				Global Citizenship Course	3
				Advanced Composition	3
10-804-198	Calculus 1	4	MATH 171	Calculus I	5
			MATH 172	Calculus II	4
			CSCI 216	C++	4

EGRT 131	Basic Electric Circuits II	4
EGRT 232	Semiconductor Devices	3
EGRT 246	Electric Power Systems	3
EGRT 325	Signals & Systems	3
EGRT 333	Linear Circuits	3
EGRT 342	Measure, Control & Data	3
EGRT 350	Data Comm & Protocols	3
EGRT 360	Eng. Project Management	3
EGRT 352 or EGRT 348 or EGRT 365 or EGR 282	Communication Systems E-Fields & Applications Special Topics Engineering Economics	3
EGRT 400	Internship OR	1
EGRT 410	Capstone Project	
Total credits needed at UW-Oshkosh to complete degree:		63

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

Updated on: 08/28/23