Northwood Technical College

32-454-1 Automated Packaging Systems Technician - New Richmond
30-454-1 Mechatronics Basics - New Richmond and Rice Lake
17-454-1 Industry 4.0 Smart Automation - Rice Lake
2026-27 Required Courses
Northwood Technical College

Name/ID _____   Date _____

Catalog Number	Course Title	*Hours per Week	Credits	Mechatronics Basics Technical Diploma (30-454-1)	Industry 4.0 Smart Automation Technical Certificate (17-454-1)	Automated Packaging Systems Technician Technical Diploma (Financial Aid Eligible)	Notes	Date Completed	Transfer or Grade
	First Term - Fall 2026								
32150302	Applied IT Basics	2 hours per week	1 credit			Automated Packaging Systems Technician			
32414335	DC Electricity	6 hours per week	3 credits	Mechatronics Basics	Industry 4.0 Smart Automation	Automated Packaging Systems Technician			
32454340	Packaging Machine Maintenance Corequisite: 32454344 Schematics, Prints, and Layouts	6 hours per week	3 credits			Automated Packaging Systems Technician			
32454341	Fluid Power Systems	6 hours per week	3 credits	Mechatronics Basics	Industry 4.0 Smart Automation	Automated Packaging Systems Technician			
32454344	Schematics, Prints, and Layouts	4 hours per week	2 credits			Automated Packaging Systems Technician			
32454362	Processes of Manufacturing - Packaging	4 hours per week	2 credits			Automated Packaging Systems Technician			
32804325	Applied Technical Math 1	6 hours per week	3 credits			Automated Packaging Systems Technician			
	First Term Total	34 hours per week		6 Credits Mechatronics Basics	6 Credits Industry 4.0 Smart Automation	17 Credits Automated Packaging Systems Technician			

All prerequisite/corequisite courses must be completed with a grade point of 2.0 or better.   Revised 5.14.25

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	Second Term - Spring 2027								
32414336	AC Electricity Prerequisite: 32414335 DC Electricity	6 hours per week	3 credits	Mechatronics Basics		Automated Packaging Systems Technician			
32420314	Basic Machine Shop	6 hours per week	3 credits			Automated Packaging Systems Technician			
32454345	Packaging Systems Equipment Control Prerequisite: 32414335 DC Electricity	6 hours per week	3 credits	Mechatronics Basics	Industry 4.0 Smart Automation	Automated Packaging Systems Technician			
32454357	Power Transmission Componentry Corequisite: 32454345 Packaging Systems Equipment and Control	4 hours per week	2 credits	Mechatronics Basics	Industry 4.0 Smart Automation	Automated Packaging Systems Technician			
32801361	Applied Communications	4 hours per week	2 credits			Automated Packaging Systems Technician			
32804334	Applied Technical Math 2 Prerequisite: 32804325 Applied Technical Math 1	4 hours per week	2 credits			Automated Packaging Systems Technician			
	Second Term Total	30 hours per week		8 Credits Mechatronics Basics	5 Credits Industry 4.0 Smart Automation	15 Credits Automated Packaging Systems Technician			

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	Third Term - Fall 2027								
32414380	Advanced PLC Prerequisite: 32454345 Packaging Systems Equipment Control	6 hours per week	3 credits		Industry 4.0 Smart Automation	Automated Packaging Systems Technician			
32442307	Welding for Mechanics	4 hours per week	2 credits			Automated Packaging Systems Technician			
32454347	Electromechanical Componentry Prerequisite: 32454345 Packaging Systems Equipment Control	8 hours per week	4 credits			Automated Packaging Systems Technician			
32454366	Introduction to Robotics Prerequisites: 32414335 DC Electricity and 32414336 AC Electricity	4 hours per week	2 credits		Industry 4.0 Smart Automation	Automated Packaging Systems Technician			
32809380	Applied Interpersonal Skills	4 hours per week	2 credits			Automated Packaging Systems Technician			
	Third Term Total	26 hours per week			5 Credits Industry 4.0 Smart Automation	13 Credits Automated Packaging Systems Technician			

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	Fourth Term - Spring 2028								
32454343	Packaging Machine Rebuilding Prerequisite: 32454347 Electromechanical Componentry	10 hours per week	5 credits			Automated Packaging Systems Technician			
32454348	Troubleshooting Prerequisite: 32454347 Electromechanical Componentry	4 hours per week	2 credits			Automated Packaging Systems Technician			
32454349	Installation of Packaging Machines Prerequisite: 32454347 Electromechanical Componentry	10 hours per week	5 credits			Automated Packaging Systems Technician			
32454359	Packaging Materials/Processes Prerequisite: 32454347 Electromechanical Componentry	4 hours per week	2 credits			Automated Packaging Systems Technician			
32454364	Motion Controls Prerequisites: 32454347 Electromechanical Componentry and 32414380 Advanced PLC	4 hours per week	2 credits			Automated Packaging Systems Technician			
32801362	Advanced Communication Skills Prerequisite: 32801361 Applied Communications	4 hours per week	2 credits			Automated Packaging Systems Technician			
	Fourth Term Total	36 hours per week				18 Credits Automated Packaging Systems Technician			
	Total Credits			**14 Credits** Mechatronics Basics	**16 Credits** Industry 4.0 Smart Automation	**63 Credits** Automated Packaging Systems Technician			

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*Hours per week represents periods of instruction and/or work-based learning hours per week (class hours). Additional time may be required outside of class to complete assignments. For more details on what you can expect outside of class, please see the "Expectations Outside of the Classroom" section of the Student Handbook

Please be advised that low enrollment class sections may be canceled. You will be contacted by Student Services with information on other class sections available in alternate formats.

Graduation Requirements: *Although your academic advisor can provide guidance, you are ultimately responsible for selecting courses that meet a program's graduation requirements. If you do not take courses in the recommended sequence above, it may delay your completion of graduation requirements. A program plan GPA of 2.0 in a 4.0 grade system is required to graduate.*

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If you have difficulty accessing this content or notice any accessibility problems, please contact the Northwood Tech Curriculum Office at
curriculum.office@NorthwoodTech.edu
or 715.752.8128. You will receive a response within 5 business days.

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