



32-454-1 AUTOMATED PACKAGING SYSTEMS TECHNICIAN - NEW RICHMOND
30-454-1 MECHATRONICS BASICS - NEW RICHMOND AND RICE LAKE
2023-24 PROGRAM CURRICULUM CHECKLIST
NORTHWOOD TECHNICAL COLLEGE
MECHATRONICS BASICS PATHWAY



Name/ID _____

Date _____

CATALOG NUMBER	COURSE TITLE	HOURS PER WEEK	CREDITS	MECHATRONICS BASICS TECHNICAL DIPLOMA	AUTOMATED PACKAGING SYSTEMS TECHNICIAN TECHNICAL DIPLOMA (Financial Aid Eligible)	NOTES	DATE COMPLETED	TRANSFER OR GRADE
FIRST TERM - FALL 2023								
32414335	DC Electricity	6 hours per week	3 credits	Mechatronics Basics	Automated Packaging Systems Technician			
32454341	Fluid Power Systems	6 hours per week	3 credits	Mechatronics Basics	Automated Packaging Systems Technician			
	FIRST TERM TOTAL	12 hours per week		6 Credits Mechatronics Basics	6 Credits Automated Packaging Systems Technician			
SECOND TERM - SPRING 2024								
32414336	AC Electricity Prerequisite: 32414335 DC Electricity	6 hours per week	3 credits	Mechatronics Basics	Automated Packaging Systems Technician			
32454345	Packaging Systems Equipment Control Prerequisite: 32414335 DC Electricity	6 hours per week	3 credits	Mechatronics Basics	Automated Packaging Systems Technician			
32454357	Power Transmission Componentry Corequisite: 32454345 Packaging Systems Equipment Control	4 hours per week	2 credits	Mechatronics Basics	Automated Packaging Systems Technician			
	SECOND TERM TOTAL	16 hours per week		8 Credits Mechatronics Basics	8 Credits Automated Packaging Systems Technician			



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THIRD TERM - FALL 2024								
32150302	Applied IT Basics	2 hours per week	1 credit		Automated Packaging Systems Technician			
32454340	Packaging Machine Maintenance	6 hours per week	3 credits		Automated Packaging Systems Technician			
32454344	Schematics, Prints, and Layouts Corequisites: 32454340 Packaging Machine Maintenance	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			
32454347	Electromechanical Componentry Prerequisite: 32454345 Packaging Systems Equipment Control	8 hours per week	4 credits		Automated Packaging Systems Technician			
	FIRST TERM TOTAL	30 hours per week			15 Credits Automated Packaging Systems Technician			
FOURTH TERM - SPRING 2025								
32420314	Basic Machine Shop	6 hours per week	3 credits		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			
32454349	Installation of Packaging Machines Prerequisite: 32454347 Electromechanical Componentry	10 hours per week	5 credits		Automated Packaging Systems Technician			
	SECOND TERM TOTAL	24 hours per week			12 Credits Automated Packaging Systems Technician			

All prerequisite/corequisite courses must be completed with a grade point of 2.0 or better. Revised 3/21/2023



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FIFTH TERM - FALL 2025								
32414380	Advanced PLC Prerequisite: 32454345 Packaging Systems Equipment Control	6 hours per week	3 credits		Automated Packaging Systems Technician			
32442307	Welding for Mechanics	4 hours per week	2 credits		Automated Packaging Systems Technician			
32454366	Introduction to Robotics	4 hours per week	2 credits		Automated Packaging Systems Technician			
32809380	Applied Interpersonal Skills	4 hours per week	2 credits		Automated Packaging Systems Technician			
	THIRD TERM TOTAL	18 hours per week			9 Credits Automated Packaging Systems Technician			



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SIXTH TERM - SPRING 2026								
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			
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	26 hours per week			13 Credits Automated Packaging Systems Technician			
	PROGRAM REQUIREMENTS			14 Credits Mechatronics Basics	63 Credits Automated Packaging Systems Technician			

The Automated Packaging Systems Technician program is funded with \$295,458 in WTCS Grant Funds.

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.

EARN CREDIT FOR WHAT YOU ALREADY KNOW:

[Visit Credit for Prior Learning for more information](#)

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or 715.852.8128. You will receive a response within 5 business days.