

32-454-1 AUTOMATED PACKAGING SYSTEMS TECHNICIAN - NEW RICHMOND
30-454-1 MECHATRONICS BASICS - NEW RICHMOND AND RICE LAKE
2025-26 REQUIRED COURSES
NORTHWOOD TECHNICAL COLLEGE
MECHATRONICS BASICS PATHWAY



Name/ID _____

Date _____

CATALOG NUMBER	COURSE TITLE	*HOURS PER WEEK	CREDITS	MECHATRONICS BASICS TECHNICAL DIPLOMA	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 2025									
32414335	DC Electricity	6 hours per week	3 credits	Mechatronics Basics	Industry 4.0 Smart Automation	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			
	FIRST TERM TOTAL	12 hours per week		6 Credits Mechatronics Basics	6 Credits Industry 4.0 Smart Automation	6 Credits Automated Packaging Systems Technician			
SECOND TERM - SPRING 2026									
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	Industry 4.0 Smart Automation	Automated Packaging Systems Technician			
32454357	Power Transmission Componentry Corequisite: 32454345 Packaging Systems Equipment Control	4 hours per week	2 credits	Mechatronics Basics	Industry 4.0 Smart Automation	Automated Packaging Systems Technician			
	SECOND TERM TOTAL	16 hours per week		8 Credits Mechatronics Basics	5 Credits Industry 4.0 Smart Automation	8 Credits Automated Packaging Systems Technician			

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THIRD TERM - FALL 2026									
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			
	THIRD TERM TOTAL	30 hours per week				15 Credits Automated Packaging Systems Technician			
FOURTH TERM - SPRING 2027									
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			
	FOURTH 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 7.5.24

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FIFTH 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			
32454366	Introduction to Robotics	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			
FIFTH TERM TOTAL		18 hours per week			5 Credits Industry 4.0 Smart Automation	9 Credits Automated Packaging Systems Technician			
SIXTH 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			
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			
SIXTH TERM TOTAL		26 hours per week				13 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.

EARN CREDIT FOR WHAT YOU ALREADY KNOW: [Visit Credit for Prior Learning for more information](#)

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