



**3 YEAR COMPLETION PLAN**  
**32-454-1 AUTOMATED PACKAGING SYSTEMS TECHNICIAN - NEW RICHMOND**  
**2023-24 PROGRAM CURRICULUM CHECKLIST**  
**NORTHWOOD TECHNICAL COLLEGE**



Name/ID \_\_\_\_\_

Date \_\_\_\_\_

CATALOG NUMBER	COURSE TITLE	HOURS PER WEEK	CREDITS	MECHATRONICS BASICS TECHNICAL DIPLOMA (30-454-1)	AUTOMATED PACKAGING SYSTEMS TECHNICIAN TECHNICAL DIPLOMA (Financial Aid Eligible)	NOTES	DATE COMPLETED	TRANSFER OR GRADE
<b>FIRST TERM - FALL 2023</b>								
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	Automated Packaging Systems Technician			
32454341	Fluid Power Systems	6 hours per week	3 credits	Mechatronics Basics	Automated Packaging Systems Technician			
32454344	Schematics, Prints, and Layouts Corequisites: 32454340 Packaging Machine Maintenance NOTE: Dean Override Required	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			
	<b>FIRST TERM TOTAL</b>	22 hours per week		6 Credits Mechatronics Basics	11 Credits Automated Packaging Systems Technician			
<b>SECOND TERM - SPRING 2024</b>								
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	Automated Packaging Systems Technician			
	<b>SECOND TERM TOTAL</b>	18 hours per week		6 Credits Mechatronics Basics	9 Credits Automated Packaging Systems Technician			

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

Revised 4/1/2024



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<b>THIRD TERM - FALL 2024</b>								
32454340	Packaging Machine Maintenance	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			
32804325	Applied Technical Math 1	6 hours per week	3 credits		Automated Packaging Systems Technician			
	<b>THIRD TERM TOTAL</b>	20 hours per week			10 Credits Automated Packaging Systems Technician			
<b>FOURTH TERM - SPRING 2025</b>								
32454343	Packaging Machine Rebuilding Prerequisite: 32454347 Electromechanical Componentry	10 hours per week	5 credits		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			
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			
	<b>FOURTH TERM TOTAL</b>	22 hours per week		2 Credits Mechatronics Basics	11 Credits Automated Packaging Systems Technician			

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<b>FIFTH TERM - FALL 2025</b>								
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 PREREQUISITES: 32414335 DC Electricity and 32414336 AC Electricity.	4 hours per week	2 credits		Automated Packaging Systems Technician			
32809380	Applied Interpersonal Skills	4 hours per week	2 credits		Automated Packaging Systems Technician			
	<b>FIFTH TERM TOTAL</b>	18 hours per week			9 Credits Automated Packaging Systems Technician			
<b>SIXTH TERM - SPRING 2026</b>								
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			
	<b>SIXTH TERM TOTAL</b>	26 hours per week			13 Credits Automated Packaging Systems Technician			
	<b>PROGRAM REQUIREMENTS</b>			<b>14 Credits</b> Mechatronics Basics	<b>63 Credits</b> Automated Packaging Systems Technician			

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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 cancelled. 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:**

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