



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 (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 2023 | | | | | | | | | |
| 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 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 | 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 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 9/6/2023



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| FIFTH TERM - FALL 2025 | | | | | | | | | |
| 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 | | | |
| | THIRD TERM TOTAL | 18 hours per week | | | 5 Credits Industry 4.0 Smart Automation | 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 | 16 Credits Industry 4.0 Smart Automation | 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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