



**3 YEAR COMPLETION PLAN**  
**10-631-2 AUTOMATION FOR INDUSTRIAL SYSTEMS**  
**31-631-1 INDUSTRIAL SYSTEMS SPECIALIST**  
**2020-21 PROGRAM CURRICULUM CHECKLIST**  
**NORTHWOOD TECHNICAL COLLEGE**  
**NEW RICHMOND**



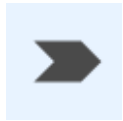
Name/ID \_\_\_\_\_

Date \_\_\_\_\_

CATALOG NUMBER	COURSE TITLE	HOURS PER WEEK	CREDITS	IT - NETWORK TECHNICIAN TECHNICAL DIPLOMA (30-150-4)	INDUSTRIAL SYSTEMS SPECIALIST TECHNICAL DIPLOMA (Financial Aid Eligible)	AUTOMATION FOR INDUSTRIAL SYSTEMS ASSOCIATE DEGREE (Financial Aid Eligible)	DATE COMPLETED	TRANSFER OR GRADE
<b>FIRST TERM</b>								
10150111	Cisco CCNA 1 Introduction to Networks	5 hours per week	3 credits	IT - NETWORK TECHNICIAN		AUTOMATION FOR INDUSTRIAL SYSTEMS		
10150139	IT Essentials and Security	3 hours per week	2 credits	IT - NETWORK TECHNICIAN		AUTOMATION FOR INDUSTRIAL SYSTEMS		
10154149	Windows Operating Systems	4 hours per week	3 credits	IT - NETWORK TECHNICIAN		AUTOMATION FOR INDUSTRIAL SYSTEMS		
10631100	Introduction to Process Control	2 hours per week	2 credits		INDUSTRIAL SYSTEMS SPECIALIST	AUTOMATION FOR INDUSTRIAL SYSTEMS		
	<b>FIRST TERM TOTAL</b>			<b>8 Credits</b> IT - NETWORK TECHNICIAN	<b>2 Credits</b> INDUSTRIAL SYSTEMS SPECIALIST	<b>10 Credits</b> AUTOMATION FOR INDUSTRIAL SYSTEMS		
<b>SECOND TERM</b>								
10150113	Cisco CCNA 2 Routing and Switching Essentials Prerequisite: 10150111 Cisco CCNA 1 Introduction to Networks	4 hours per week	3 credits	IT - NETWORK TECHNICIAN		AUTOMATION FOR INDUSTRIAL SYSTEMS		
10154103	Linux Operating Systems	4 hours per week	3 credits	IT - NETWORK TECHNICIAN		AUTOMATION FOR INDUSTRIAL SYSTEMS		
	<b>SECOND TERM TOTAL</b>			<b>6 Credits</b> IT-NETWORK TECHNICIAN		<b>6 Credits</b> AUTOMATION FOR INDUSTRIAL SYSTEMS		



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<b>THIRD TERM</b>								
10605167	Electricity 1 Corequisite: 10804113 College Technical Mathematics 1A	3 hours per week	2 credits		INDUSTRIAL SYSTEMS SPECIALIST	AUTOMATION FOR INDUSTRIAL SYSTEMS		
10631108	PLC Programming and Interfacing Prerequisite: 10605167 Electricity 1	5 hours per week	3 credits		INDUSTRIAL SYSTEMS SPECIALIST	AUTOMATION FOR INDUSTRIAL SYSTEMS		
10631109	Industrial AC, Motor Control, and Pilot Devices Prerequisite: 10605168 Electricity 2 or equivalent	5 hours per week	3 credits		INDUSTRIAL SYSTEMS SPECIALIST	AUTOMATION FOR INDUSTRIAL SYSTEMS		
10804113	College Technical Mathematics 1A	3 hours per week	3 credits			AUTOMATION FOR INDUSTRIAL SYSTEMS		
<b>THIRD TERM TOTAL</b>					<b>8 Credits</b> INDUSTRIAL SYSTEMS SPECIALIST	<b>11 Credits</b> AUTOMATION FOR INDUSTRIAL SYSTEMS		
<b>FOURTH TERM</b>								
10150117	Server Administration 1 Prerequisite: 10154149 Windows Operating Systems	4 hours per week	3 credits	IT - NETWORK TECHNICIAN		AUTOMATION FOR INDUSTRIAL SYSTEMS		
10150170	Coding with Python	3 hours per week	2 credits	IT - NETWORK TECHNICIAN		AUTOMATION FOR INDUSTRIAL SYSTEMS		
10605168	Electricity 2 Prerequisite: 10605167 Electricity 1	3 hours per week	2 credits			AUTOMATION FOR INDUSTRIAL SYSTEMS		
10631110	Advanced PLC Programming and Interfacing Prerequisite: 10-631-108 PLC Programming and Interfacing	5 hours per week	3 credits		INDUSTRIAL SYSTEMS SPECIALIST	AUTOMATION FOR INDUSTRIAL SYSTEMS		
<b>FOURTH TERM TOTAL</b>				<b>5 Credits</b> IT-NETWORK TECHNICIAN	<b>2 Credits</b> INDUSTRIAL SYSTEMS SPECIALIST	<b>9 Credits</b> AUTOMATION FOR INDUSTRIAL SYSTEMS		

All prerequisite/corequisite courses must be completed with a grade point of 2.0 or better. Revised 2/23/2021





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<b>FIFTH TERM</b>								
10631102	Industrial Power Electronics Prerequisite: 1-605167 Electricity 1	4 hours per week	2 credits		INDUSTRIAL SYSTEMS SPECIALIST	AUTOMATION FOR INDUSTRIAL SYSTEMS		
10631103	Process Control and Instrumentation Prerequisite: 10605167 Electricity 1 and Corequisite: 10631100 Introduction to Process Control	6 hours per week	3 credits		INDUSTRIAL SYSTEMS SPECIALIST	AUTOMATION FOR INDUSTRIAL SYSTEMS		
10804114	College Technical Mathematics 1B Prerequisite: 10804113 College Technical Mathematics 1A	2 hours per week	2 credits			AUTOMATION FOR INDUSTRIAL SYSTEMS		
<b>FIFTH TERM TOTAL</b>					<b>5 Credits</b> INDUSTRIAL SYSTEMS SPECIALIST	<b>7 Credits</b> AUTOMATION FOR INDUSTRIAL SYSTEMS		
<b>SIXTH TERM</b>								
10631104	Smart Instruments Prerequisite: 10-631-100 Introduction to Process Control	3 hours per week	2 credits		INDUSTRIAL SYSTEMS SPECIALIST	AUTOMATION FOR INDUSTRIAL SYSTEMS		
10631106	Supervisory and Distributed Control Systems Prerequisites: 10-631-100 Introduction to Process Control and 10-631-108 PLC Programming and Interfacing	6 hours per week	3 credits		INDUSTRIAL SYSTEMS SPECIALIST	AUTOMATION FOR INDUSTRIAL SYSTEMS		
10631107	Industrial Automation Case Project Prerequisites: 10-631-100 Introduction to Process Control; 10-631-102 Industrial Power Electronics; 10-631-103 Process Control and Instrumentation; 10-631-108 PLC Programming and Interfacing; and 10-631-109 Industrial AC, Motor Control, and Pilot Devices	2 hours per week	1 credit		INDUSTRIAL SYSTEMS SPECIALIST	AUTOMATION FOR INDUSTRIAL SYSTEMS		
10631105	Industrial Networks and Communication Busses Corequisite: 10631110 Advanced PLC Programming and Interfacing	3 hours per week	2 credits		INDUSTRIAL SYSTEMS SPECIALIST	AUTOMATION FOR INDUSTRIAL SYSTEMS		
<b>SIXTH TERM TOTAL</b>					<b>9 Credits</b> INDUSTRIAL SYSTEMS SPECIALIST	<b>9 Credits</b> AUTOMATION FOR INDUSTRIAL SYSTEMS		

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	<b>GENERAL STUDIES (may be taken at any time; variety of instructional formats are available)</b>							
10801136	English Composition 1	3 hours per week	3 credits			AUTOMATION FOR INDUSTRIAL SYSTEMS		
10801196 or 10801198	Oral/Interpersonal Communication or Speech	3 hours per week	3 credits			AUTOMATION FOR INDUSTRIAL SYSTEMS		
10809166 or 10809172 or 10809195	Introduction to Ethics: Theory and Application or Introduction to Diversity Studies or Economics	3 hours per week	3 credits			AUTOMATION FOR INDUSTRIAL SYSTEMS		
10809198	Introduction to Psychology	3 hours per week	3 credits			AUTOMATION FOR INDUSTRIAL SYSTEMS		
	<b>Total General Studies</b>					<b>12 credits</b>		
	<b>PROGRAM REQUIREMENTS</b>			<b>19 CREDITS</b> IT - NETWORK TECHNICIAN	<b>26 CREDITS</b> INDUSTRIAL SYSTEMS SPECIALIST	<b>64 CREDITS</b> AUTOMATION FOR INDUSTRIAL SYSTEMS		

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.

GENERAL STUDIES COURSE OPTIONS FOR NORTHWOOD TECH ASSOCIATE DEGREE PROGRAMS

Co-enrollment in 99831900 Writing Essentials may be recommended in addition to English Composition 1.

Specific General Studies courses are scheduled as requirements for this program. If you have completed General Studies coursework at another Wisconsin technical college, please refer to the Acceptable Transfer Course document at the following link (find your program) to see if your previous coursework will transfer

<https://www.NorthwoodTech.edu/academic-programs/degree-programs-and-certificates/general-studies-courses/courses>

If you have completed General Studies coursework at Northwood Tech in a prior term, the same options will apply for your program requirements.

*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 grade point average (GPA) of 2.0 in a 4.0 grade system is required to graduate.*

EARN CREDIT FOR WHAT YOU ALREADY KNOW: Visit <http://www.NorthwoodTech.edu/admissions/preparing-for-college/credit-for-prior-learning> for more information

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