



10-631-2 AUTOMATION FOR INDUSTRIAL SYSTEMS
31-631-1 INDUSTRIAL SYSTEMS SPECIALIST
2019-20 PROGRAM CURRICULUM CHECKLIST
WISCONSIN INDIANHEAD TECHNICAL COLLEGE (WITC)
NEW RICHMOND



Name/ID _____

Date _____

CATALOG NUMBER	COURSE TITLE	HOURS PER WEEK		CREDITS		IT - NETWORK TECHNICIAN 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
FIRST TERM										
10-150-111	Cisco CCNA 1 Introduction to Networks	5	hours per week	3	credits	IT - NETWORK TECHNICIAN		AUTOMATION FOR INDUSTRIAL SYSTEMS		
10-150-139	IT Essentials and Security	3	hours per week	2	credits	IT - NETWORK TECHNICIAN		AUTOMATION FOR INDUSTRIAL SYSTEMS		
10-154-149	Windows Operating Systems	4	hours per week	3	credits	IT - NETWORK TECHNICIAN		AUTOMATION FOR INDUSTRIAL SYSTEMS		
10-605-167	Electricity 1 Corequisite: 10-804-113 College Technical Mathematics 1A	3	hours per week	2	credits		INDUSTRIAL SYSTEMS SPECIALIST	AUTOMATION FOR INDUSTRIAL SYSTEMS		
10-631-100	Introduction to Process Control	2	hours per week	2	credits		INDUSTRIAL SYSTEMS SPECIALIST	AUTOMATION FOR INDUSTRIAL SYSTEMS		
10-804-113	College Technical Mathematics 1A	3	hours per week	3	credits			AUTOMATION FOR INDUSTRIAL SYSTEMS		
	FIRST TERM TOTAL					8 Credits IT - NETWORK TECHNICIAN	4 Credits INDUSTRIAL SYSTEMS SPECIALIST	15 Credits AUTOMATION FOR INDUSTRIAL SYSTEMS		

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

Revised 2/04/2019

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SECOND TERM										
10-150-113	Cisco CCNA 2 Routing and Switching Essentials Prerequisite: 10-150-111 Cisco CCNA 1 Introduction to Networks	4	hours per week	3	credits	IT - NETWORK TECHNICIAN		AUTOMATION FOR INDUSTRIAL SYSTEMS		
10-150-117	Server Administration 1 Prerequisite: 10-154-149 Windows Operating Systems	4	hours per week	3	credits	IT - NETWORK TECHNICIAN		AUTOMATION FOR INDUSTRIAL SYSTEMS		
10-154-103	Linux Operating Systems	4	hours per week	3	credits	IT - NETWORK TECHNICIAN		AUTOMATION FOR INDUSTRIAL SYSTEMS		
10-605-168	Electricity 2 Prerequisite: 10-605-167 Electricity 1	3	hours per week	2	credits			AUTOMATION FOR INDUSTRIAL SYSTEMS		
10-150-170	Coding with Python	3	hours per week	2	credits	IT - NETWORK TECHNICIAN		AUTOMATION FOR INDUSTRIAL SYSTEMS		
10-801-136	English Composition 1	3	hours per week	3	credits			AUTOMATION FOR INDUSTRIAL SYSTEMS		
	SECOND TERM TOTAL					11 Credits IT-NETWORK TECHNICIAN		16 Credits AUTOMATION FOR INDUSTRIAL SYSTEMS		

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THIRD TERM										
10-631-102	Industrial Power Electronics Prerequisite: 10-605-167 Electricity 1	4	hours per week	2	credits		INDUSTRIAL SYSTEMS SPECIALIST	AUTOMATION FOR INDUSTRIAL SYSTEMS		
10-631-103	Process Control and Instrumentation Prerequisite: 10-605-167 Electricity 1 and Corequisite: 10-631-100 Introduction to Process Control	6	hours per week	3	credits		INDUSTRIAL SYSTEMS SPECIALIST	AUTOMATION FOR INDUSTRIAL SYSTEMS		
10-631-108	PLC Programming and Interfacing Prerequisite: 10-605-167 Electricity 1	5	hours per week	3	credits		INDUSTRIAL SYSTEMS SPECIALIST	AUTOMATION FOR INDUSTRIAL SYSTEMS		
10-631-109	Industrial AC, Motor Control, and Pilot Devices Prerequisite: 10-605-168 Electricity 2 or equivalent	5	hours per week	3	credits		INDUSTRIAL SYSTEMS SPECIALIST	AUTOMATION FOR INDUSTRIAL SYSTEMS		
10-801-196 or 10-801-198	Oral/Interpersonal Communication or Speech	3	hours per week	3	credits			AUTOMATION FOR INDUSTRIAL SYSTEMS		
10-804-114	College Technical Mathematics 1B Prerequisite: 10-804-113 College Technical Mathematics 1A	2	hours per week	2	credits			AUTOMATION FOR INDUSTRIAL SYSTEMS		
10-809-198	Introduction to Psychology	3	hours per week	3	credits			AUTOMATION FOR INDUSTRIAL SYSTEMS		
	THIRD TERM TOTAL						11 Credits INDUSTRIAL SYSTEMS SPECIALIST	19 Credits AUTOMATION FOR INDUSTRIAL SYSTEMS		

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FOURTH TERM										
10-631-104	Smart Instruments Prerequisite: 10-631-100 Introduction to Process Control	3	hours per week	2	credits		INDUSTRIAL SYSTEMS SPECIALIST	AUTOMATION FOR INDUSTRIAL SYSTEMS		
10-631-105	Industrial Networks and Communication Busses	3	hours per week	2	credits		INDUSTRIAL SYSTEMS SPECIALIST	AUTOMATION FOR INDUSTRIAL SYSTEMS		
10-631-106	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		
10-631-107	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		
10-631-110	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		
10-809-166 or 10-809-172 or 10-809-195	Introduction to Ethics: Theory and Application or Introduction to Diversity Studies or Economics	3	hours per week	3	credits			AUTOMATION FOR INDUSTRIAL SYSTEMS		
FOURTH TERM TOTAL							11 Credits INDUSTRIAL SYSTEMS SPECIALIST	14 Credits AUTOMATION FOR INDUSTRIAL SYSTEMS		
PROGRAM REQUIREMENTS						19 CREDITS IT - NETWORK TECHNICIAN	26 CREDITS INDUSTRIAL SYSTEMS SPECIALIST	64 CREDITS AUTOMATION FOR INDUSTRIAL SYSTEMS		



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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.

WITC GENERAL STUDIES COURSE OPTIONS FOR WITC ASSOCIATE DEGREE PROGRAMS

Co-enrollment in 99-831-900 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.witc.edu/academic-programs/degree-programs-and-certificates/general-studies-courses/courses>

If you have completed General Studies coursework at WITC 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.witc.edu/admissions/preparing-for-college/credit-for-prior-learning> for more information