Industrial Systems Technician



Explore Catalog Search Courses

The Industrial Systems Technology curriculum is designed to prepare or upgrade individuals to safely service, maintain, repair, or install equipment. Instruction includes theory and skill training needed for inspecting, testing, troubleshooting, and diagnosing industrial systems.

Students will learn multi-craft technical skills in print reading, mechanical systems maintenance, electricity, hydraulics/pneumatics, welding, machining or fabrication, and includes various diagnostic and repair procedures. Practical application in these industrial systems will be emphasized and additional advanced course work may be offered.

What Will I Learn?

The Industrial Systems Technology program prepares students to service, maintain, repair or install equipment for a wide range of industries. Students will explore areas like electronics, safety and mechanical maintenance fundamentals.

What Can I Do with This Course of Study?

Upon completion of this curriculum, graduates should be able to individually, or with a team, safely install, inspect, diagnose, repair, and maintain industrial process and support equipment. Students will also be encouraged to develop their skills as life-long learners.

AAS: Industrial Systems Technician

Foundations: These are the courses students need in order to progress in their career/college pathway, as they either provide a certificate or lay the groundwork for moving to the next set of courses.

Course	Course Title	Counts Toward
MCHN 1302	Print Reading for Machining Trades	MW1, MC1
MCHN 1438	Basic Machine Shop I	MC1
MCHN 1425	Millwright I	MW1
ENGL 1301	Composition	

Knowledge Building: These courses further the students' knowledge in the area of study and increase their preparation for the degree completion.

Course	Course Title	Counts Toward
MCHN 1429	Millwright II	MW1
MCHN 1454	Intermediate Machining II	MC1
MCHN 2403	Fundamentals of Computer Numerical Controlled (CNC) Machine Controls	MC1
MCHN 2405	Millwright III	MW1
CREATIVE ARTS/ LPC	Suggested: ARCH 1311	
SPCH	Suggested: SPCH 1321	

Completion: These are the courses the student needs in order to complete the degree plan and prepare to enter the workforce.

Course	Course Title	Counts Toward
SBS/HIST/GOVT PS	Suggested: PSYC 2301 o SOCI 1301	r
MCHN 2434	Operation of CNC Machining Centers	MC1
HYDR 1345	Hydraulics and Pneumatics	MW1
WLDG 1323	Welding Safety, Tools,	MW1 (WLDG or PFPB
OR	and Equipment	only)
PFPB 1350	OR	MC1 (Student may
OR	Plumbing and Pipefitting	choose the WLDG or
MCHN 2381	Equipment and Safety	PFPB and should also
	OR	complete MCHN 2381 for
	Cooperative Education –	the MC1 certificate)
	Machine Tool Technology	/
	Machinist	
MCHN 2407	Millwright IV	MW1
MCHN 2412	Millwright V	MW1

Life and PhysicalSuggested: PHYS 1405 orSciences/MathMATH 1332NOTE: One additional course not in the degree is required for the MC1certificate: WLDG 1428 (Introduction to Shielded Metal Arc Welding (SMAW)

MC1: Certificate of Completion — Machinist

Foundations: These are the courses students need in order to progress in their career/college pathway, as they either provide a certificate or lay the groundwork for moving to the next set of courses.

Course	Course Title	Counts Toward
MCHN 1302	Print Reading for Machining Trades	MC1
MCHN 1438	Basic Machine Shop I	#MC1
WLDG 1323 OR PFPB 1350	Welding Safety, Tools, and Equipment##OR##Plumb and Pipefitting#Equipment#an Safety	C C
MCHN 2403	Fundamentals of Computer Numerical Controlled (CNC) Machine Controls	#MC1

Knowledge Building: These courses further the students' knowledge in the area of study and increase their preparation for the degree completion.

Course	Course Title	Counts Toward
MCHN 1454	Intermediate Machining II	#MC1
WLDG 1428	Introduction to Shielded Metal Arc Welding (SMAW)	MC1
MCHN 2434	Operation of CNC Machining Centers	#MC1

Completion: These are the courses the student needs in order to complete the degree plan and prepare to enter the workforce.

Course	Course Title	Counts Toward
#MCHN 2431	#Operation of Turning Centers	#MC1

MW1: Certificate of Completion — Millwright

Foundations: These are the courses students need in order to progress in their career/college pathway, as they either provide a certificate or lay the groundwork for moving to the next set of courses. Course Course Title Counts Toward

MCHN 1302	Print Reading for	MW1
	Machining Trades	
MCHN 1425	Millwright I	MW1

Knowledge Building: These courses further the students' knowledge in the area of study and increase their preparation for the degree completion.

Course	Course Title	Counts Toward
MCHN 1429	Millwright II	MW1
MCHN 2405	Millwright III	MW1

Completion: These are the courses the student needs in order to complete the degree plan and prepare to enter the workforce.

Course	Course Title	Counts Toward
HYDR 1345	Hydraulics and Pneumatics	MW1
WLDG 1323 OR PFPB 1350	Welding Safety, Tools, and Equipment OR Plumbing and Pipefitting	MW1 (WLDG or PFPB only)
	Equipment and Safety OR	
MCHN 2381	Cooperative Education – Machine Tool Technology/ Machinist	,
MCHN 2407	Millwright IV	MW1
MCHN 2412	Millwright V	MW1

CAREERS IN INDUSTRIAL SYSTEMS My Next Move

Live Chat

Contact Info

Lexie Harder <u>Iharder@lee.edu</u> 281.425.6579 Contact an Advisor/Counselor