ADVANCED SYSTEMS TECHNOLOGY



2023-2024 TEXTBOOKS & REQUIRED SUPPLIES

	Course#	COURSE NAME	TEXTBOOK TITLE	EDITION	PUBLISHER	ISBN	
	IND112	Fluid Power I					
	IND127	Mechanical Systems	Industrial Mechanics w/CD	4th	ATP	978-0-826-93712-4	
	IND147	Mechanical Systems Reliability	Industrial Mechanics Workbook	4th	ATP	978-0-826-93713-1	
	IND207	Fluid Power II					
✓ TEXTBOOKS							
(REQUIRED)	IND104	Basic Electricity I	Electrical Motor Controls Electrical Motor Controls Workbook	5 th	ATP ATP	978-0-826-91226-8 978-0-826-91227-5	
	IND152	Electrical Control Systems I					
	IND204	Electrical Control Systems II					
	IND213	Advanced ECS					
	IND 223	Commercial & Industrial Wiring					
	IND217	Industrial Programmable Logic Controllers	Intro to Programmable Logic Controllers	3rd	АТР	978-0-826-91396-8	
	IND252	Robotics I					
	IND256	Robotics II					
	IND 247	Industrial Process Control	Instrumentation	7 th	ATP	978-0	

	Required Tools:				
√ TOOLS	 Phillips Screwdriver #1 Phillips Screwdriver #2 Slotted Screwdriver ½" Slotted Screwdriver 3/8" Slotted Screwdriver 5/16" Metric Allen Wrench Set Standard Allen Wrench Set Slip/Joint Pliers 8" Linesman Pliers 8" Needle Nose Pliers 5' Diagonal Cutting Pliers 5" Metric Combination Open End Wrench Set (8mm-19mm) Standard Combination Open End Wrench Set (1/4"3/4") 	 Padlock (Combination or Key Lock) Precision Screwdriver Set with (Plastic Handles) Adjustable Wrench 8" Wire Strippers 7" Tool Bag Fuse Puller Tape Measure 25' (Foot) 3/8' Socket Set Standard 3/8" Socket Set with Ratchet Drive (Includes 5/16"-3/4") Metric 3/8" Socket Set with Ratchet Drive (Includes 12mm-19mm) Tongue and Groove Pliers (12" with Jaw Opening of 2") 			
✓ Tools	Optional Tools: Digital Multimeter Cat III (600 volts or better) Wire Crimpers Ballpeen Hammer Dead Blow Hammer Ugly's Electrical Reference				
✓ SUPPLIES	Required Supplies: Calculator (TI-30XIIS or TI-30XIIB) Safety Glasses with side shields Notebook Paper Pen or Pencil Water Bottle Uniform Shirts (Provided by Washburn Tech Students may also need to purchase supplies such as (but not limited to) pens and/or pencils, notebooks and/or paper, three-ring-binders, etc. All items are purchased by the student at the vendor of their choice.				

Washburn University prohibits discrimination on the basis of race, color, sex, religion, age, national origin, ancestry, disability, marital or parental status, sexual orientation/gender identity, genetic information, or other non-merit reasons, in University programs and activities, admissions, educational programs or activities and employment, as required by applicable laws and regulations. The following person has been designated to handle inquiries regarding the non-discrimination policies: Dr. Pamela Foster, Equal Opportunity Director, Washburn University, 1700 SW College Ave., Topeka, Kansas 66621, 785.670.1509, eodirector@washburn.edu