

ADVANCED SYSTEMS TECHNOLOGY



2021-2022 TEXTBOOKS & REQUIRED SUPPLIES

	COURSE#	COURSE NAME	TEXTBOOK TITLE	EDITION	PUBLISHER	ISBN
✓ TEXTBOOKS (REQUIRED)	IND112	Fluid Power I	Industrial Mechanics w/CD Industrial Mechanics Workbook	4th	ATP	978-0-826-93712-4 978-0-826-93713-1
	IND127	Mechanical Systems				
	IND147	Mechanical Systems Reliability		4th	ATP	
	IND207	Fluid Power II				
	IND104	Basic Electricity I	Electrical Motor Controls Electrical Motor Controls Workbook	5 th	ATP	978-0-826-91226-8 978-0-826-91227-5
	IND152	Electrical Control Systems I				
	IND204	Electrical Control Systems II		5 th	ATP	
	IND213	Advanced ECS				
	IND217	Industrial Programmable Logic Controllers	Intro to Programmable Logic Controllers	3rd	ATP	978-0-826-91396-8
	IND223	Commercial & Industrial Wiring	Commercial & Industrial Wiring	2nd	ATP	978-0-826-92077-5
	IND247	Industrial Process Control	Instrumentation	7 th	ATP	978-0-826-93446-8
	IND252	Robotics I	Industrial Robotics Fundamentals: Theory & Applications	4th	Goodheart- Wilcox	978-1-649-25978-3
	IND256	Robotics II				

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<p>✓ TOOLS</p>	<p><u>Required Tools:</u></p> <ul style="list-style-type: none"> • Phillips Screwdriver #1 • Phillips Screwdriver #2 • Slotted Screwdriver ¼" • 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) <p><u>Optional Tools:</u></p> <ul style="list-style-type: none"> • Digital Multimeter Cat III (600 volts or better) • Wire Crimpers • Ballpeen Hammer • Dead Blow Hammer • Ugly's Electrical Reference 	<ul style="list-style-type: none"> • 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")
<p>✓ SUPPLIES</p>	<ul style="list-style-type: none"> • Calculator (TI-30XIIS or TI-30XIIB) • Safety Glasses with side shields • Notebook Paper • Pen or Pencil • Water Bottle • Face Masks (REQUIRED to be in the building) • Uniform Shirts (Provided by Washburn Tech) <p>Students <u>may</u> 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.</p>	

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