

Program Option: Industrial Technology Certificate and AAS Degree Option - C124 Industrial Maintenance/Engineering Technician Careers

Manufacturing and Technology							
	Title	Prerequsisites		Ser	nester	Hours	
Course			Awd	Lec	Lab	Total	
	Diploma Awarded: Certificate (CER) - the following classes.		Tota	l Hou	rs =	28	
AUT 102	Lean Manufacturing & Industrial Safety		CER	3		3	
AUT 104	Blueprint Reading for Manufacturing		CER	3		3	
AUT 116	Introduction to Robotics		CER	2	2	3	
AUT 186	Principles of Welding & Metal Cutting Techniques		CER	1	4	3	NCEER Welding, Level I, Modules 101 - 112
CIS 146	Microcomputer Applications or		CER	3		3	
ELM 200	Electric Circuits I (DC Electricity)	eligible for MTH 100	CER	2	2	3	Electronics Technician Association, EM1
ENG 101	English Composition I	Placement	CER	3		3	
MET 190	Mechanical Tools I		CER	2	4	4	
MTH 100	Intermediate College Algebra	Placement	CER	3		3	
Diploma Awarded: Advanced Certificate (ACER) - add the following classes to those listed above.			Tota	Total Hours =		40	
AHUM EL	Humanities & Fine Arts Elective (recommend PHL 206)		ACER	3		3	
AUT 130	Fundamentals Industrial Hydraulics & Pneumatics		ACER	2	2	3	
ELM 201S	Electric Circuits II (AC Electricity)	ELM 200	ACER	2	2	3	Electronics Technician Association, EM2
MET 220	Mechanical System I		ACER	2	2	3	
Diploma Awarded: Associate in Applied Science (AAS) - add the following classes to those listed above.				Total Hours =			or 66
ASOC EL	Soc. & Behavr. Sci. Elective (recommend PSY 200 or SOC 200)		AAS	3		3	
ATM 211	Programmable Logic Controllers I	ELM 215	AAS	2	2	3	
AUT 208	Automated System Diagnosis & Troubleshooting	ELM 215 & ATM 211	AAS	2	2	3	
AUT 213	Robotics Project	AUT 116 & AUT 186	AAS	1	4	3	
ELM 215	Industrial Controls I	ELM 201S	AAS	2	4	4	
PHY 115	Technical Physics	MTH 100	AAS	3	2	4	
SPH 107	Fundamentals of Public Speaking		AAS	3		3	
	Required AAS Option Elective, choose one course to meet the total credit hours for the chosen		AAS				
	Option:						
ATM, AUT,	AUT 293 (3 Credits) - Automated Cooperative Education, or					2	
ELM, MET	AUT 191 (3 Credits) - Special Topics, Welding, or					or	
	ATM 212 (3 Credits) - Programmable Logic Controllers II, or					3	
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ATM 220 (3 Credits) - Advance Motor Drives