



Course	Title	Prerequisites	Awd	Semester Hours			Total
				Lec	Lab		
Diploma Awarded: Short Term Certificate (STC) - the following classes.				Total Hours =			28
AUT 102	Lean Manufacturing & Industrial Safety		STC	3		3	
AUT 104	Blueprint Reading for Manufacturing		STC	3		3	
AUT 116	Introduction to Robotics		STC	2	2	3	
AUT 186	Principles of Welding & Metal Cutting Techniques		STC	1	4	3	NCEER Welding, Level I, Modules 101 - 112
CIS 146	Microcomputer Applications or		STC	3		3	
ELM 200	Electric Circuits I (DC Electricity)	eligible for MTH 100	STC	2	2	3	Electronics Technician Association, EM1
ENG 101	English Composition I	Placement	STC	3		3	
MET 190	Mechanical Tools I		STC	2	4	4	
MTH 100	Intermediate College Algebra	Placement	STC	3		3	
Diploma Awarded: Certificate (CER) - add the following classes to those listed above.				Total Hours =			40
AHUM EL	Humanities & Fine Arts Elective (recommend PHL 206)		CER	3		3	
AUT 130	Fundamentals Industrial Hydraulics & Pneumatics		CER	2	2	3	
ELM 201S	Electric Circuits II (AC Electricity)	ELM 200	CER	2	2	3	Electronics Technician Association, EM2
MET 220	Mechanical System I		CER	2	2	3	
Diploma Awarded: Associate in Applied Science (AAS) - add the following classes to those listed above.				Total Hours =			65
ASOC EL	Soc. & Behavr. Sci. Elective (recommend PSY 200 or SOC 200)		AAS	3		3	or 66
ATM 211	Programmable Logic Controllers I	ELM 215	AAS	2	2	3	
AUT 208	Automated System Diagnosis & Troubleshooting	ATM 211	AAS	2	2	3	
AUT 213	Robotics Project	AUT 116	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	
ATM, AUT, ELM, MET, WKO	Required AAS Option Elective, choose one course to meet the total credit hours for the chosen Option: AUT 293 (3 Credits) - Automated Cooperative Education, or AUT 191 (3 Credits) - Special Topics, Welding, or ATM 212 (3 Credits) - Programmable Logic Controllers II, or ATM 220 (3 Credits) - Advance Motor Drives, WKO 110 (3 Credits) - NCCER Core		AAS			2 or 3	