



Course	Title	Prerequisites	Semester Hours				Credentials
			Awd	Lec	Lab	Total	
<b>Diploma Awarded: Short Term Certificate (CER) - the following classes.</b>			<b>Total Hours =</b>			<b>28</b>	
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		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	
MTH 100	Intermediate College Algebra	Placement	STC	3		3	
PHY 115	Technical Physics	MTH 100	STC	3	2	4	
<b>Diploma Awarded: Certificate (CER) - add the following classes to those listed above.</b>			<b>Total Hours =</b>			<b>37</b>	
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
AHUM EL	Humanities & Fine Arts (recommend PHL 206)		CER	3		3	
<b>Diploma Awarded: Associate in Applied Science (AAS) - add the following classes to those listed above.</b>			<b>Total Hours =</b>			<b>65</b>	
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	
ATM 212	Programmable Logic Controllers II	ATM 211	AAS	2	2	3	
ATM 220	Advanced Motor Controls	ELM 215	AAS	1	4	3	
AUT 208	Automated System Diagnosis & Troubleshooting	ATM 220 & ATM 211	AAS	2	2	3	
AUT 213	Robotics Project (Fanuc Welding Cell)	AUT 116	AAS	1	4	3	
ELM 215	Industrial Controls I	ELM 201S	AAS	2	4	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 262 (3 Credits) - Computer Integrated Manufacturing, or MET 201 (3 Credits) - Basic Computer Aided Drafting, or MET 220 (3 Credits) - Mechanical Systems I, WKO 110 (3 Credits) - NCCER Core		AAS			3	