

## Program Option: Manufacturing Systems Technology Certificate and AAS Degree Option - C240 Manufacturing Production Careers

**Manufacturing and Technology** 

Manufacturing and Technology			Semester Hours			Hours	
Course	Title	Prerequsisites	Awd	Lec	Lab	Total	Credentials
Diploma Awarded: Certificate (CER) - after completion of the following classes.			Tota	l Hou	rs =	28	
ADM 106	Quality Control Concepts		CER	2	2	3	
AUT 102	Lean Manufacturing and Industrial Safety (Mfg. Fundamentals)		CER	3		3	OHSA 10 Hr.
AUT 104	Blueprint Reading for Manufacturing		CER	3		3	
AUT 116	Introduction to Robotics		CER	2	2	3	
AUT 130	Fundamentals Industrial Hydraulics & Pneumatics		CER	2	2	3	
AUT 144	Manufacturing Systems, Methods, and Processes		CER	3		3	
MET 190	Mechanical Tools I		CER	2	4	4	
MET 233	Materials		CER	3		3	
MET 237	Automated Inspection Principles (Introduces CMM & Vision Inspection Systems)		CER	2	2	3	
Diploma Awarded: Advanced Certificate (ACER) - add the following classes to those listed above.			Total Hours =		40		
AHUM EL	Humanities & Fine Arts Elective (recommend PHL 206)		ACER	3		3	
CIS 146	Microcomputer Applications		ACER	3		3	
ENG 101	English Composition I	Placement Score	ACER	3		3	
MTH 100	Intermediate College Algebra	Placement Score	ACER	3		3	
Diploma Awarded: Associate in Applied Science (AAS) - add the following classes to those listed above.				Total Hours =		69	or 70
ASOC EL	Soc. & Behavr. Sci. Elective (recommend PSY 200 or SOC 200)		AAS	3		3	
IET 114	Basic Electricity		AAS	2	2	3	
MET 191	Mechanical Tools II (introduces CNC)	MET 190	AAS	2	4	4	
MET 201	Basic Computer Aided Drafting & Design (AutoCAD)	AUT 104	AAS	1	4	3	
MET 220	Mechanical Systems I		AAS	2	2	3	
MST 111	Elements of Supervision		AAS	3		3	
PHY 115	Technical Physics	MTH 100	AAS	3	2	4	
SPH 107 or 106	Fundamentals of Public Speaking or Oral Comm. Recmd SPH 107		AAS	3		3	
	Required AAS Option Elective, choose one course to meet the total credit hours for the		AAS				
	chosen Option:					,	
ATM, AUT,	AUT 293 (3 Credits) - Automated Cooperative Education, or					3	
ELM, MET	MET 204 (3 Credits) - Basic Computer Aided Modeling (Inventor), or					or 4	
	ELM 215 (4 Credits) - Industrial Controls, or					-	
	AUT 186 (3 Credits) - Principles of Welding and Metal Cutting						

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