

7/12/2021

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

## **Production Careers**

Jefferson State  
COMMUNITY COLLEGE

Manufacturing and Technology

**NEW !!!**



				Semester Hours			
Course	Title	Prerequisites	Awd	Lec	Lab	Total	Credentials
Diploma Awarded: Certificate (CER) - after completion of the following classes.			Total Hours =			28	
ADM 106	Quality Control Concepts		CER	2	2	3	MSSC (see below)
AUT 102	Lean Manufacturing and Industrial Safety (Mfg. Fundamentals)		CER	3		3	OHSA 10 Hr. & MSSC (see below)
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	MSSC (see below)
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)		AAS	1	4	3	
MET 220	Mechanical Systems I		AAS	2	2	3	MSSC (see below)
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. <i>Recmd SPH 107</i>		AAS	3		3	
ATM, AUT, ELM, MET	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 MET 204 (3 Credits) - Basic Computer Aided Modeling (Inventor), or ELM 215 (4 Credits) - Industrial Controls, or AUT 186 (3 Credits) - Principles of Welding and Metal Cutting		AAS			3 or 4	
Manufacturing Skills Council's (MSSC) Certified Production Technician (CPT)				The CPT Certification is a <u>required</u> part of JSSC's Manufacturing Systems Technology curriculum. The goal of the industry-wide recognized CPT certification is to raise the level of performance of professional production workers both to assist the individuals in finding higher-wage jobs and to help employers ensure their workforce increases the company's productivity and competitiveness. Students passing respective MSSC exams will receive a certificate for each of four functional manufacturing areas and upon passing all four exams will recieve the CPT			
MSSC CPT Credential Module	JSSC Course	JSSC Course Title	MSSC Course Online Curriculum (replaces textbook)	MSSC Exam Fees			
Safety	AUT 102	Lean Manufacturing & Industrial Safety	\$130	\$43			
Quality Practices & Measurement	ADM 106	Quality Control Concepts	\$130	\$43			
Manufacturing Processes & Production	AUT 144	Manufacturing Systems, Methods, & Processes	\$130	\$43			
Maintenance Awareness	MET 220	Mechanical Systems	\$130	\$43			
One time MSSC Registration Fee			\$60				
Costs are in addition to tutition, books/fees.		Total Costs for MSSC CPT Certification	\$752				