

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

Manufacturing and Technology Regins Fall 2016 Semester										
						Semester		Hours	(9)	
		Title		Prerequsisites	Awd	Lec	Lab	Total	Credentials	
Diploma Awarded: Certificate (CER) - after completion of the following classes.						otal Hours =		28		
Quality Control Cond	cepts				CER	2	2	3	MSSC (see below)	
Lean Manufacturing	and Industri	ial Safety (Mfg. Fundamentals)			CER	3		3	OHSA 10 Hr. & MSSC (see below)	
Blueprint Reading fo	r Manufactu	ıring			CER	3		3		
Introduction to Robo	otics				CER	2	2	3		
Fundamentals Indus	strial Hydrau	lics & Pneumatics			CER	2	2	3		
Manufacturing Syste	ems, Method	ls, and Processes			CER	3		3	MSSC (see below)	
Mechanical Tools I					CER	2	4	4		
Materials					CER	3		3		
Automated Inspection	on Principles	(Introduces CMM & Vision Inspection Syste	ms)		CER	2	2	3		
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Diploma Awarded: Advanced Certificate (ACER) - add the following classes to those listed above.						otal Hours =		40		
Humanities & Fine A	rts Elective (	recommend PHL 206)			ACER	3		3		
Microcomputer App	lications	·			ACER	3		3		
English Composition	1			Placement Score	e ACER	3		3		
Intermediate College	e Algebra			Placement Score	e ACER	3		3		
Diploma Awarded: Associate in Applied Science (AAS) - add the following classes to those listed above.					Tota	Total Hours =		69	or 70	
Soc. & Behavr. Sci. E	lective (reco	mmend PSY 200 or SOC 200)			AAS	3		3		
Basic Electricity					AAS	2	2	3		
1 Mechanical Tools II (introduces CNC)				MET 190	AAS	2	4	4		
1 Basic Computer Aided Drafting & Design (AutoCAD)				AUT 104	AAS	1	4	3		
T 220 Mechanical Systems I					AAS	2	2	3	MSSC (see below)	
Elements of Supervision					AAS	3		3		
Technical Physics				MTH 100	AAS	3	2	4		
H 107 or 106 Fundamentals of Public Speaking or Oral Comm. <i>Recmd SPH 107</i>					AAS	3		3		
Required AAS Option	n Elective, ch	noose one course to meet the total credit hou	urs for the		AAS					
chosen Option:								9		
AUT 293 (3 Credits) -	- Automated	Cooperative Education, or								
MET 204 (3 Credits) - Basic Computer Aided Modeling (Inventor), or								_		
•		•						7		
AUT 186 (3 Credits) - Principles of Welding and Metal Cutting										
Manufa	acturing Skill	s Council's (MSSC) Certified Production Tec				-			s a <u>required</u> part of JSSC's Manufacturing	
						,				
				-		_			·	
•						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				
		<b>/</b>	+		, -	compe	CICIVEII	css. Stuu	ichts bassing respective Misse evalus Mill	
		One time MSSC Registration Fee		\$60		receive	a cert	ificate fo	r each of four functional manufacturing	
	Diploma Awai Quality Control Cond Lean Manufacturing Blueprint Reading for Introduction to Robe Fundamentals Indu Manufacturing Syste Mechanical Tools I Materials Automated Inspection Intermediate College Awarded: Associate Basic Electricity Mechanical Tools II Basic Computer App English Composition Intermediate College Awarded: Associate Soc. & Behavr. Sci. E Basic Electricity Mechanical Tools II Basic Computer Aide Mechanical Systems Elements of Supervi Technical Physics Fundamentals of Pu Required AAS Option Chosen Option: AUT 293 (3 Credits) MET 204 (3 Credits) ELM 215 (4 Credits) AUT 186 (3 Credits) AUT 186 (3 Credits)  Manufa  Medential Module  Measurement Decesses & Production	Diploma Awarded: Cert Quality Control Concepts Lean Manufacturing and Industri Blueprint Reading for Manufactu Introduction to Robotics Fundamentals Industrial Hydrau Manufacturing Systems, Method Mechanical Tools I Materials Automated Inspection Principles  The Awarded: Advanced Computer Applications English Composition I Intermediate College Algebra  Awarded: Associate in Applications English Composition I Intermediate College Algebra  Awarded: Associate in Applications English Composition I Intermediate College Algebra  Awarded: Associate in Applications English Composition I Intermediate College Algebra  Awarded: Associate in Applications English Composition I Intermediate College Algebra  Awarded: Associate in Applications English Composition I Intermediate College Algebra  Awarded: Associate in Applications English Composition I Intermediate College Algebra  Awarded: Associate in Applications English Composition I Intermediate College Algebra  Awarded: Associate in Applications English Composition I Intermediate College Algebra  Awarded: Associate in Applications English Composition I Intermediate College Algebra  Awarded: Associate in Applications English Composition I Intermediate College Algebra  Awarded: Associate in Applications Elective (reco Basic Electricity  Mechanical Tools II (introduces College Applications Elements of Supervision Technical Physics Fundamentals of Public Speaking Required AAS Option Elective, chechosen Option: AUT 293 (3 Credits) - Automated MET 204 (3 Credits) - Basic Composition I Intermediate College Algebra  Manufacturing Skill  Edential Module  JSCC Course AUT 102 ADM 106 AUT 144	Title  Diploma Awarded: Certificate (CER) - after completion of the form of th	Title  Diploma Awarded: Certificate (CER) - after completion of the following classes Quality Control Concepts Lean Manufacturing and Industrial Safety (Mfg. Fundamentals) Blueprint Reading for Manufacturing Introduction to Robotics Fundamentals Industrial Hydraulics & Pneumatics Manufacturing Systems, Methods, and Processes Manufacturing Systems, Methods, and Processes Mechanical Tools I Materials Automated Inspection Principles (Introduces CMM & Vision Inspection Systems)  Ma Awarded: Advanced Certificate (ACER) - add the following classes to those list Humanities & Fine Arts Elective (recommend PHL 206) Microcomputer Applications English Composition I Intermediate College Algebra  Awarded: Associate in Applied Science (AAS) - add the following classes to those Soc. & Behavr. Sci. Elective (recommend PSY 200 or SOC 200) Basic Electricity Mechanical Tools II (introduces CNC) Basic Computer Aided Drafting & Design (AutoCAD) Mechanical Systems I Elements of Supervision Technical Physics Fundamentals of Public Speaking or Oral Comm. Recmd SPH 107 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) - Basic Computer Aided Modeling (Inventor), or ELM 215 (4 Credits) - Industrial Controls, or AUT 186 (3 Credits) - Principles of Welding and Metal Cutting  Manufacturing Skills Council's (MSSC) Certified Production Technician (CPT)  MSSC Course Or  dential Module  JSCC Course JSCC Course Title  (replaces AUT 102 Lean Manufacturing Systems, Methods, & Processes 51	Title Prerequisites  Diploma Awarded: Certificate (CER) - after completion of the following classes.  Quality Control Concepts  Lean Manufacturing and Industrial Safety (Mig. Fundamentals)  Blueprint Reading for Manufacturing Introduction to Robotics  Fundamentals Industrial Hydraulics & Pneumatics  Manufacturing Systems, Methods, and Processes  Mechanical Tools I  Materials  Automated Inspection Principles (Introduces CMM & Vision Inspection Systems)  Materials  Automated Inspection Principles (Introduces CMM & Vision Inspection Systems)  Materials  Automated Inspection Principles (Introduces CMM & Vision Inspection Systems)  Materials  Automated Inspection Principles (Introduces CMM & Vision Inspection Systems)  Maraded: Advanced Certificate (ACER) - add the following classes to those listed above.  Humanities & Fine Arts Elective (recommend PHL 206)  Microcomputer Applications  English Composition I  Intermediate College Algebra  Placement Scon  Awarded: Associate in Applied Science (AAS) - add the following classes to those listed above.  Soc. & Behavr. Sci. Elective (recommend PSY 200 or SOC 200)  Basic Electricity  Basic Computer Aided Drafting & Design (AutoCAD)  Mechanical Tools II (introduces CNC)  Basic Computer Aided Drafting & Design (AutoCAD)  Mechanical Systems I  Elements of Supervision  Technical Physics  Fundamentals of Public Speaking or Oral Comm. Recmd SPH 107  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  ELEM 215 (4 Credits) - Industrial Controls, or  AUT 1293 (3 Credits) - Principles of Welding and Metal Cutting  Manufacturing Skills Council's (MSSC) Certified Production Technician (CPT)  Mechanical Module  JSCC Course  JSCC Course Title  (replaces textbook)  AUT 104  Manufacturing Systems, Methods, & Processes  S130	Title Prerequisites Awd  Diploma Awarded: Certificate (CER) - after completion of the following classes.  Tota Quality Control Concepts CER Lean Manufacturing and Industrial Safety (Mig. Fundamentals) CER Introduction to Robotics CER Blueprint Reading for Manufacturing Introduction to Robotics CER Hundamentals Industrial Hydraulics & Pneumatics CER Manufacturing Systems, Methods, and Processes CER Manufacturing Systems, Methods, and Processes CER Manufacturing Systems, Methods, and Processes CER Materials CER Materials CER Automated Inspection Principles (Introduces CMM & Vision Inspection Systems) CER  Materials CER Automated Inspection Principles (Introduces CMM & Vision Inspection Systems) CER  Maraded: Advanced Certificate (ACER) - add the following classes to those listed above.  Tota Maraded: Advanced Certificate (ACER) - add the following classes to those listed above.  Microcomputer Applications CACER  Intermediate College Algebra Placement Score ACER  AWarded: Associate in Applied Science (AAS) - add the following classes to those listed above.  Tota  Awarded: Associate in Applied Science (AAS) - add the following classes to those listed above.  ASSoc. & Behavr. Sci. Elective (recommend PSY 200 or SOC 200) AAS  Basic Electricity Associate in Applied Science (AAS) - add the following classes to those listed above.  Tota  Associate In Applied Science (AAS) - add the following classes to those listed above.  ASSoc. & Behavr. Sci. Elective (recommend PSY 200 or SOC 200) AAS  Bechanical Tools II (Introduces CNC) ASS  Basic Electricity ASS  Mechanical Tools II (Introduces CNC) ASS  Mechanical Systems I ASS  Elements of Supervision ASS  El	Title Prerequisites Awd Lec  Diploma Awarded: Certificate (CER) - after completion of the following classes.  Total Hou Quality Control Concepts  Lean Manufacturing and Industrial Safety (Mrg. Fundamentals)  Blueprint Reading for Manufacturing  CER 3  Blueprint Reading for Manufacturing Service (CER 3  Blueprint Reading for Manufacturing Service (CER 3  Blueprint Reading for Manufacturing Systems, Methods, and Processes  CER 3  Blueprint Reading for Manufacturing Systems, Methods, and Processes  CER 3  Autonamentals Industrial Hydraulics & Pneumatics  CER 2  Materials  CER 3  Automated Inspection Principles (Introduces CMM & Vision Inspection Systems)  CER 2  Materials  Automated Inspection Principles (Introduces CMM & Vision Inspection Systems)  CER 2  Materials  Automated Inspection Principles (Introduces CMM & Vision Inspection Systems)  CER 2  Materials  Automated Inspection Principles (Introduces CMM & Vision Inspection Systems)  CER 2  Materials  Automated Inspection Principles (Introduces CMM & Vision Inspection Systems)  CER 3  Automated Inspection Principles (Introduces CMM & Vision Inspection Systems)  CER 2  Materials  Automated Inspection Principles (Introduces CMM & Vision Inspection Systems)  CER 2  Materials  Automated Inspection Principles (Introduces CMM & Vision Inspection Systems)  CER 2  Automated Inspection Principles (Introduces CMM & Vision Inspection Systems)  Automated Inspection Principles (Introduces CMM & Vision Inspection Systems)  CER 2  Materials (Automated Inspection Systems)  CER 2  Materials (Automated Inspection Systems)  CER 3  Automated Inspection Systems (Inspection Systems)  CER 3  Automated Inspection Systems (Inspection Syste	Title Prerequisites And Lec Lab  Diploma Awarded: Certificate (CER) - after completion of the following classes.  Quality Control Concepts Quality	Title	