Manufacturing Programs Offered for Year 2012 - 2013



Machining Technology

Machining Technology - AAS
Machining Technology - Basic Certificate
Machining Technology - Intermediate Certificate
Manufacturing Engineering Technology
Manufacturing Engineering Technology - AAS
Manufacturing Engineering Technology - Certificate
Manufacturing Process - Certificate
Manufacturing Engineering Technology - Plastic Engineering Technology - AAS
Manufacturing Engineering Technology - Plastic Engineering Technology - Certificate 9
Welding
Basic Welding Helper - Certificate
Advanced Welding - Certificate

FAVA EDUC		Page 1 of 1					
NAME:			SS#:			DATE:	
COLLEGE:			COUNSELOR/AI	OVISOR:		CATALOG YEAR:	12-13
	IINING TE	CHNOL		ATE IN APPLIED SCIEN	NCE		
HCCS Course Requirement	Transfer/Su Institution	ubstitution Course	Substitute (SU) Transfer (TR)	Comment/Disapp	proval	Approval Signature	Date
TSI testing required prior to first enrollment.							
FIRST YEAR							
FIRST SEMESTER							
LEAD 1200 Workforce Development with Critical Thinking							
TECM 1301 Industrial Mathematics							
MCHN 1302 Print Reading for Machining Trades							
ENTC 1347 Safety and Ergonomics							
MCHN 1308 Basic Lathe							
MCHN 1313 Basic Milling Operations							
SECOND SEMESTER							
ITSC 1309 Integrated Software Applications I							
MCHN 2433 Advanced Lathe Operations							
MCHN 2437 Advanced Milling Operations							
MCHN 1320 Precision Tools and Measurement							
SECOND YEAR							
First Semester							
ENGL 1301 Composition I							
MCHN 2303 Fundamentals of Computer Numerical Controls							
(CNC) Machine Controls							
HYDR 1345 Hydraulics and Pneumatics							
XXXX #3## Humanities/Fine Arts General Ed. Elective							
XXXX #3## Math/Natural Science General Ed. Elective							
SECOND SEMESTER							
ENGL 1302 Composition II OR							
ARTS 1316 Foundation Drawing I							
XXXX #3## Social/Behavioral Science General Ed. Elective							
MCHN 1305 Metals and Heat Treatment							
MCHN 2447 Specialized Tools and Fixtures							
MCHN 1370 Lean Manufacturing-Machinist							

FA	HOUSTON COMMUNITY COLLEGE SYSTEM VA EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION										
NAME:				SS#:			DATE:				
COLLEGE:				COUNSELOR/A	OVISOR:		CATALOG YEAR:	12-13			
		MACHINI	NG TECH		ASIC - CERTIFICATE						
	HCCS Course Requirement	Transfer/Su Institution	ubstitution Course	Substitute (SU) Transfer (TR)	Comment/Disa	approval	Approval Signature	Date			
TSI testing require	ed prior to completion of first enrollment.										
FIRST SEMESTER	₹										
LEAD 1200	Workforce Development with Critical Thinking										
	Industrial Mathematics										
MCHN 1302	Print Reading for Machining Trades										
ENTC 1347	Safety and Ergonomics										
	Basic Lathe										
MCHN 1313	Basic Milling Operations										

FAVA EDU				LEGE SYSTEM BSTITUTION PETITION		Page 1 of 1
NAME:			SS#:		DATE:	
COLLEGE:			COUNSELOR/AI	OVISOR:	CATALOG YEAR:	: 12-13
	CHINING T			RMEDIATE - CERTIFICATE		
HCCS Course Requirement	Transfer/St Institution		Substitute (SU) Transfer (TR)		Approval Signature	Date
TSI testing required prior to completion of first enrollment.						
First Semester						
LEAD 1200 Workforce Development with Critical Thinking	3					
TECM 1301 Industrial Mathematics						
MCHN 1302 Print Reading for Machining Trades						
MCHN 1308 Basic Lathe						
MCHN 1313 Basic Milling Operations						
ENTC 1347 Safety and Ergonomics						
Second Semester						
ITSC 1309 Integrated Software Applications I						
MCHN 2433 Advanced Lathe Operations						
MCHN 2437 Advanced Milling Operations						
MCHN 1320 Precision Tools and Measurement						
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FA	_VA EDU		Page 1 of 2				
NAME:				DATE:			
COLLEGE:				CATALOG YEAR:	12-13		
	MANUFACTURIN	NG ENGINE	ERING T	ECHNOLOGY	Y - ASSOCIATE IN APPLIED SO	CIENCE	
	HCCS Course Requirement	Transfer/Su Institution		Substitute (SU) Transfer (TR)		Approval Signature	Date
TSI Testing require	d prior to first enrollment.						
FIRST YEAR							
FIRST SEMESTER							
LEAD 1200	Workforce Development with Critical Thinking						
TECM 1301	Industrial Mathematics						
MCHN 1302	Print Reading for Machining Trades						
ENTC 1347	Safety and Ergonomics						
INMT 1345	Computer Numerical Controls						
MCHN 1338	Basic Machine Shop I						
SECOND SEMEST	TER						
ITSC 1309	Integrated Software Applications I						
HYDR 1345	Hydraulics and Pneumatics						
INMT 1343	Computer Aided Design/Computer Aided						
	Manufacturing (CAD/CAM)						
MCHN 2331	Operation of CNC Turning Centers						
SECOND YEAR							
FIRST SEMESTER							
ENGL 1301	Composition I						
ELPT 1311	Basic Electrical Theory						
ENTC 2331	Manufacturing Materials						
ELPT 1341	Motor Control						
INCR 1302	Physics of Instrumentation						
SECOND SEMEST							
XXXX #3##	Math/Natural Science General Ed. Elective						
ENGL 1302	Composition II OR						
ARTS 1316	Foundation Drawing I						
XXXX #3##	Social/Behavioral Science General Ed. Elective						
ELPT 1355	Electronic Applications						
ELMT 1301	Programmable Logic Controllers						
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FA	_VA EDUC	HOUSTON COMMUNITY COLLEGE SYSTEM EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION										
NAME:				SS#:			DATE:					
COLLEGE:			(COUNSELOR/AI	OVISOR:		CATALOG YEAR:	12-13				
	MANUFACTURIN	G ENGINE			Y - ASSOCIATE IN APPL	IED SCIENCE						
	HCCS Course Requirement	Transfer/Substitution Institution Course					Approval Signature	Date				
THIRD SEMESTE	R											
INMT 1317	Industrial Automation											
ENTC 2314	Facility Operation and Maintenance I OR											
INMT 1311	Computer Integrated Manufacturing											
XXXX #3##	Humanities/Fine Arts General Ed. Elective											
INMT 1370	Lean Manufacturing-Manufacturing Engineering											

FAVA EDU	HOUSTON COMMUNITY COLLEGE SYSTEM VA EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION										
NAME:			SS#:		DATE:						
COLLEGE:			COUNSELOR/AI	DVISOR:	CATALOG YEAR:	12-13					
MANUFACTURING ENGINEERIN	G TECHNO										
HCCS Course Requirement	Transfer/Su Institution	ubstitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date					
TSI testing required prior to completion of first enrollment.											
FIRST SEMESTER											
LEAD 1200 Workforce Development with Critical Thinking											
TECM 1301 Industrial Mathematics											
MCHN 1302 Print Reading for Machining Trades											
ENTC 1347 Safety and Ergonomics											
INMT 1345 Computer Numerical Controls											
MCHN 1338 Basic Machine Shop I											
SECOND SEMESTER											
ITSC 1309 Integrated Software Applications I											
HYDR 1345 Hydraulics and Pneumatics											
INMT 1343 Computer Aided Design/Computer Aided											
Manufacturing (CAD-CAM)											
MCHN 2331 Operation of CNC Turning Centers											
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FAVA EDUC				LEGE SYSTEM BSTITUTION PETITION		Page 1 of 1
NAME:			SS#:		DATE:	
COLLEGE:			COUNSELOR/AI	OVISOR:	CATALOG YEAR	R: 12-13
	INEERING	G TECHN		RTIFICATE - MANUFACTURIN		
HCCS Course Requirement	Transfer/Su Institution		Substitute (SU) Transfer (TR)		Approval Signature	Date
TSI testing required prior to completion of first enrollment.						
First Semester						
LEAD 1200 Workforce Development with Critical Thinking						
ENTC 2431 Manufacturing Materials						
INMT 1443 Computer Aided Design/Computer Aided						
Manufacturing (CAD-CAM)						
INMT 1445 Computer Numerical Controls						
ENTC 1447 Safety and Ergonomics						
Second Semester						
RBTC 1305 Robotics Fundamentals						
INMT 1411 Computer Integrated Manufacturing						
INMT 1380 Cooperative Education-Industrial/						
Manufacturing Technology						
INMT 1291 Special Topics in Manufacturing Technology /Tech.						
ENTC 1491 Special Topics-Engineering Technology,						
General General						
General						
This certificate will be deactivated as September 1, 2011.						
No new students will be admitted into this certificate program.						
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FAVA	HOUSTON COMMUNITY COLLEGE SYSTEM VA EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION									
NAME:			SS#:	DATE:						
COLLEGE:			COUNSELOR/AI	OVISOR:	CATALOG YE	AR: 12-13				
MANUFACTURING ENGINE	ERING TECHNO	OLOGY -								
HCCS Course Requirement	Transfer/Su Institution		Substitute (SU) Transfer (TR)	Comment/Disapprov	1	Date				
TSI testing required prior to first enrollment.										
FIRST YEAR										
FIRST SEMESTER										
LEAD 1200 Workforce Development with Critical Think	ing									
PLTC 1301 Introduction to Plastics										
ENGL 1301 Composition I										
TECM 1301 Industrial Mathematics										
ENTC 2331 Manufacturing Materials										
SECOND SEMESTER										
XXXX #3## Humanities/Fine Arts General Ed. Elective										
XXXX #3## Math/Natural Science General Ed. Electiv	e									
PLTC 1303 Plastics Composites										
PLTC 1306 Plastic Quality Control										
INMT 1343 Computer Aided Design/Computer Aided Manufacturing (CAD-CAM)										
SECOND YEAR										
FIRST SEMESTER										
ENGL 1302 Composition II OR										
ARTS 1316 Foundation Drawing I										
HYDR 1345 Hydraulics and Pneumatics										
PLTC 1445 Plastic Processes I										
XXXX #3## Social/Behavioral Science General Ed. Election	ve									
ENTC 1347 Safety and Ergonomics										
SECOND SEMESTER										
INMT 1311 Computer Integrated Manufacturing										
PLTC 1343 Mold Design and Maintenance										
INMT 1317 Industrial Automation										
PLTC 2446 Plastic Processes II										
PLTC 2331 Troubleshooting Plastic Processes										

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NAME:				DATE:			
COLLEGE:				COUNSELOR/AI	CATALOG YEAI	R: 12-13	
	MANUFACTURING ENGINE	EERING TE					
	HCCS Course Requirement	Transfer/Su Institution	ubstitution Course	Substitute (SU) Transfer (TR)	Comment/Disapprova	Approval Signature	Date
TSI testing required	d prior to completion of first enrollment.						
PLTC 1301	Introduction to Plastics						
TECM 1301	Hydraulics and Pneumatics Industrial Mathematics Manufacturing Materials						
SECOND SEMEST PLTC 1303	<u> </u>						
	Plastic Quality Control Computer Aided Design/Computer Aided						
INMT 1317							
THIRD SEMESTER							
INMT 1311 PLTC 1343							

FAVAEDU	HOUSTON COMMUNITY COLLEGE SYSTEM EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION										
NAME:			SS#:		DATE:						
COLLEGE:			COUNSELOR/AI	DVISOR:	CATALOG YEAR:	12-13					
	G TECHNO			E - BASIC WELDING HELPER							
HCCS Course Requirement	Transfer/St Institution		Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date					
TSI testing required prior to completion of first enrollment. FIRST SEMESTER											
LEAD 1200 Workforce Development with Critical Thinking TECM 1301 Industrial Mathematics											
WLDG 1421 Introduction to Welding Fundamentals WLDG 1313 Introduction to Blueprint Reading for Welders											
WLDG 1407 Introduction to Welding Using Multiple Process											

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NAME:			SS#:			DATE:	
COLLEGE:			COUNSELOR/AI	OVISOR:		CATALOG YEAR: 12-13	
	ING TECH			TE - ADVANCED	WELDING	.1	
HCCS Course Requirement	Transfer/St Institution	ubstitution Course	Substitute (SU) Transfer (TR)	Commen	nt/Disapproval	Approval Signature	Date
TSI testing required prior to completion of first enrollment.							
First Semester							
LEAD 1200 Workforce Development with Critical Thinking							
TECM 1301 Industrial Mathematics							
WLDG 1421 Introduction to Welding Fundamentals							
WLDG 1313 Introduction to Blueprint Reading for Weld-							
ers							
WLDG 1407 Introduction to Welding Using Multiple Process							
Second Semester							
WLDG 1430 Introduction to Gas Metal Arc MIG Welding							
(GMAW)							
WLDG 1434 Introduction to Gas Tungsten Arc TIG Welding							
(GTAW)							
WLDG 1435 Introduction to Pipe Welding							
Third Semester							
WLDG 2447 Advanced Gas Metal Arc MIG Welding (GMAW))						
WLDG 2451 Advanced Tungsten Arc Welding (GTAW)							
WLDG 2453 Advanced Pipe Welding							