

# Manufacturing Programs

## **Machining Technology**

- 2 Machining Technology-AAS
- 3 Basic Machining Technology-Certificate
- 4 Machining Technology-Certificate

## **Manufacturing Engineering Technology**

- 5 Manufacturing Engineering Technology-AAS
- 6 Manufacturing Engineering Technology-Certificate
- 7 Manufacturing Process-Certificate
- 8 Manufacturing Engineering Technology-Plastic Engineering Technology Specialization-AAS
- 9 Manufacturing Engineering Technology-Plastic Engineering Technology-Certificate

## **Welding**

- 10 Basic Welding Helper-Certificate
- 11 Basic Welding-Certificate
- 12 Welding-Mig Specialization-Certificate
- 13 Welding- Pipe Specialization-Certificate
- 14 Welding-TIG Specialization-Certificate

**HOUSTON COMMUNITY COLLEGE SYSTEM  
EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION**

\_\_\_ FA \_\_\_ VA

NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 09-10

**MACHINING TECHNOLOGY - ASSOCIATE IN APPLIED SCIENCE**

HCCS Course Requirement	Transfer/ Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI Testing required prior to first enrollment.						
FIRST YEAR						
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
MCHN 1438 Beginning Machine Shop						
MCHN 1408 Basic Lathe						
MCHN 1413 Basic Milling Operations						
MCHN 1391 Special Topics in Machinist/ Machine Technologist						
SECOND SEMESTER						
MCHN 2433 Advanced Lathe Operations						
MCHN 2437 Advanced Milling Operations						
ENTC 1447 Safety and Ergonomics						
MCHN 1330 Statistical Process Control for Machinist						
SECOND YEAR						
FIRST SEMESTER						
ENGL 1301 Composition I						
MATH 1314 College Algebra OR						
TECM 1303 Technical Calculations						
XXXX #3## Humanities/Fine Arts Elective						
HYDR 1309 Basic Fluid Power I (Hydraulics)						
HYDR 1315 Basic Fluid Power II (Pneumatics)						
SECOND SEMESTER						
XXXX #3## Social/Behavioral Science Elective						
XXXX #3## Humanities/Fine Arts Elective						
ENTC 1301 Robotics I						
INMT 1411 Computer Integrated Manufacturing						
INMT 1380 Cooperative Education-Industrial/ Manufacturing Technology/Technician						





**HOUSTON COMMUNITY COLLEGE SYSTEM  
EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION**

\_\_\_ FA \_\_\_ VA

NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 09-10

**MANUFACTURING ENGINEERING TECHNOLOGY - ASSOCIATE IN APPLIED SCIENCE**

HCCS Course Requirement	Transfer/ Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI Testing required prior to first enrollment.						
FIRST YEAR						
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
ENTC 2431 Manufacturing Materials						
XXXX #3## Humanities/Fine Arts Elective						
ENGL 1301 Composition I						
MATH 1314 College Algebra OR						
TECM 1303 Technical Calculations						
SECOND SEMESTER						
ENTC 1423 Strength of Materials						
INMT 1443 Computer Aided Design/Computer Aided Manufacturing (CAD-CAM)						
INMT 1445 Computer Numerical Controls						
XXXX #3## Math/Natural Science Elective						
XXXX #3## Social Science General Education Elective						
SECOND YEAR						
FIRST SEMESTER						
HYDR 1309 Basic Fluid Power I (Hydraulics)						
HYDR 1315 Basic Fluid Power II (Pneumatics)						
INMT 1391 Special Topics in Manufacturing Technology/Tech.						
ENTC 1447 Safety and Ergonomics						
ENTC 2410 Machine Design						
SECOND SEMESTER						
ENTC 1301 Robotics I						
INMT 1391 Special Topics in Manufacturing Technology/Tech.						
INMT 1317 Industrial Automation						
INMT 1411 Computer Integrated Manufacturing						
INMT 1380 Cooperative Education -Industrial/ Manufacturing Technology/Technician						





**HOUSTON COMMUNITY COLLEGE SYSTEM  
EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION**

\_\_\_ FA \_\_\_VA

<b>NAME:</b>	<b>SS#:</b>	<b>DATE:</b>
<b>COLLEGE:</b>	<b>COUNSELOR/ADVISOR:</b>	<b>CATALOG YEAR: 09-10</b>

**MANUFACTURING ENGINEERING TECHNOLOGY - AAS - PLASTIC ENGINEERING TECHNOLOGY SPECIALIZATION**

HCCS Course Requirement	Transfer/ Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI Testing required prior to first enrollment.						
FIRST YEAR						
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
ENTC 2431 Manufacturing Materials						
INMT 1391 Special Topics in Manufacturing Technology/Technician						
PLTC 1301 Introduction to Plastics						
ENGL 1301 Composition I						
MATH 1314 College Algebra OR						
TECM 1303 Technical Calculations						
SECOND SEMESTER						
XXXX #3## Humanities/Fine Arts Elective						
XXXX #3## Math/Natural Science Elective						
PLTC 1303 Plastics Composites						
PLTC 1306 Plastic Quality Control						
INMT 1443 Computer Aided Design/Computer Aided Manufacturing (CAD-CAM)						
SECOND YEAR						
FIRST SEMESTER						
HYDR 1315 Basic Fluid Power II (Peumatics)						
HYDR 1309 Basic Fluid Power I (Hydraulics)						
INMT 1380 Cooperative Education -Manufacturing Technology/Technician						
XXXX #3## Social/Behavioral Science Elective						
ENTC 1447 Safety and Ergonomics						
SECOND SEMESTER						
INMT 1411 Computer Integrated Manufacturing						
PLTC 1343 Mold Design and Maintenance						
INMT 1391 Special Topics in Manufacturing Tech./Technician						
INMT 1317 Industrial Automation						
PLTC 1445 Plastic Processes I						











