

Manufacturing Programs

Machining Technology

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

Manufacturing Engineering Technology

- 5 Manufacturing Engineering Technology-AAS
- 6 Manufacturing Engineering Technology-Certificate
- 7 Manufacturing Process-Certificate (Deactivated as of September 1, 2011)
- 8 Manufacturing Engineering Technology-Plastic Engineering Technology Specialization-AAS
- 9 Manufacturing Engineering Technology-Plastic Engineering Technology-Certificate

Welding

- 10 Basic Welding Helper-Certificate
- 11 Advanced Welding-Certificate

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

___ FA ___ VA

NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 11-12

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						
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						

**HOUSTON COMMUNITY COLLEGE SYSTEM
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NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 11-12

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

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NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 11-12

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						
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. Elective						
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. Elective						
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						

