



**Transfer Pathway: Houston Community College
AAS Machining Technology to Lamar University
BS Industrial Technology**



First Year - Freshman							
Fall Semester				Spring Semester			
HCC	Lamar	Course Name	Hrs	HCC	Lamar	Course Name	Hrs
EDUC 1300		Learning Framework	3	HYDR 1345		Hydraulics & Pneumatics	3
MCHN 1343		Machine Shop Math	3	MCHN 1308		Basic Lathe	3
MCHN 1302		Print Read for Machining Trades	3	MCHN 1313		Basic Milling Operations	3
ENTC 1347		Safety & Ergonomics	3	MCHN 1320		Precision Tools & Measurements	3
MCHN 1338		Basic Machine Shop I	3	MCHN 1305		Metals & Heat Treatment	3
Total			15	Total			15
Summer Semester							
HCC	Lamar	Course Name	Hrs	HCC	Lamar	Course Name	Hrs
Total			0	Total			0
Second Year - Sophomore							
Fall Semester				Spring Semester			
HCC	Lamar	Course Name	Hrs	HCC	Lamar	Course Name	Hrs
MCHN 2333		Advanced Lathe Operations	3	SBS Core		SBS Core	3
MCHN 2337		Adv Mill Operations	3	Fine Arts Core		Fine Arts Core	3
INMT 1370		Lean Manufacturing - Engineering	3	Gen Ed Core*		Gen Ed Core*	3
MCHN 2331 or INMT 1345		Operation of CNC Turn Centers or Computer Numerical Controls	3	Gen Ed Core*		Gen Ed Core*	3
				Math or Science Core**		Math or Science Core**	3
Total			12	Total			15
Summer Semester at HCC and/or LU							
HCC	Lamar	Course Name	Hrs	HCC	Lamar	Course Name	Hrs
MCHN 2341		Advanced Machining I	3	COMM Core		COMM Core	3
COMM Core		COMM Core	3				
Total			6	Total			3
Third Year - Junior							
Fall Semester				Spring Semester			
Lamar	Course Name	Hrs	Lamar	Course Name	Hrs		
INEN 2301	Quantitative Methods	3	INEN 4301	Quality Control Applications	3		
INEN 3300	Intro to IE	3	INEN 4316	Industrial & Product Safety	3		
INEN 3330	Engineering Economy	3	INEN 4351	Product & Inventory Systems	3		
HIST 1301	US History I	3	INEN 4369	Engineering Management	3		
POLS 2301	Political Science I	3	INEN 3360	Computer Tech	3		
Total		15	Total		15		
Summer Semester							
Lamar	Course Name	Hrs	Lamar	Course Name	Hrs		
LPC Core	LPC Core	3	L & PS Core	Life & Physical Science Core	4		
L & PS Core	Life & Physical Science Core	4	MATH 1314*	College Algebra *(if not taken)	3		
Total		7	Total		7		
Fourth Year - Senior							
Fall Semester			Spring Semester				
Lamar	Course Name	Hrs	Lamar	Course Name	Hrs		
HIST 1302	US History II	3	Advd. Elective	Approved Advanced Elective	3		
Advd. Elective	Approved Advanced Elective	3	Advd. Elective	Approved Advanced Elective	3		
Advd. Elective	Approved Advanced Elective	3	Advd. Elective	Approved Advanced Elective	3		
Advd. Elective	Approved Advanced Elective	3	Advd. Elective	Approved Advanced Elective	3		
INEN 4315	Industrial Management	3	POLS 2302	Political Science II	3		
Total		15	Total		15		

Notes:
 *Lamar University recommends that students select a General Education Course that will satisfy Core requirements: HIST 1301 or 1302, GOVT 2305 or 2306, Lab Science, etc. See advisor for additional information.
 **Lamar University requires that students take College Algebra or higher math.