



Houston Com	munity College & Angelo State I	Jniver	sit	y Transfer Plan	for		
Engineering Science- Mechanical Engineering, A.S.							
Bachelor of So	cience in Mechanical Engineering	g (B.S.	М.	E.)			
Houston Community College Fall Semester		sch		Houston Community College Spring Semester Y		sch	
Year 1							
ENGR 1201	Introduction to Engineering	2		ENGR 1304	Engineering Graphics I will transfer as	3	
(Program	will transfer as ASU's ENGR			(Program	ASU's ENGR 1304		
Requirement)	1201			Requirement)			
ENGL 1301	Composition I will transfer as	3		ENGL 2311	Technical & Business Writing will	3	
(Core 010N)	ASU's ENGL 1301			(Core 010N)	transfer as ASU's ENGL 2311		
HIST 1301	United States History I will	3		MATH 2414	Calculus II will transfer as ASU's MATH	4	
(Core 060N)	transfer as ASU's HIST 1301			(Major Support	2414		
				Course)			
MATH 2413	Calculus I will transfer as ASU's	4		PHYS 2325	University Physics I (Lecture) will	3	
(Core 020N &	MATH 2413			(Core 030N &	transfer as ASU's PHYS 2325		
Major Support				Major Support			
CUENA	Conoral Chamistry I / Lacture &	Λ			University Physics I (Lab) will transfer	1	
CHEIVI	General Chemistry I (Lecture &	4		PHTS 2125	oniversity Physics I (Lab) will transfer	Ŧ	
1311/1111 (Aroa P.000N &	Lab) will transfer us ASU s			Major Support	US ASU S PHYS 2125		
Major Support				Course)			
Course)				,			
				ENGR 2304	Programming for Engineers will	3	
				(Program	transfer as ASU's ENGR 2304	-	
				Requirement)			
	TOTAL	16			TOTAL	17	
Houston Com	munity College Fall Semester	sch		Houston Community College Spring Semester Year 2		sch	
Year 2							
ENGR 2301	Engineering Mechanics-	3		ENGR 2305	Electrical Circuits I (Lecture) will	3	
(Program	Statics will transfer as ASU's			(Program	transfer as ASU's ENGR 2305		
Requirement)	ENGR 2301			Requirement)			
MATH 2415 <sup>1</sup>	Calculus III will transfer as	4		ENGR 2105 <sup>2</sup>	Electrical Circuits I (Lab) will transfer	1	
(Major Support	ASU'S MATH CENA			(Major Support	as ASU's ENGR NENA		
Course)		-		Course)		_	
GOVT 2305	Federal Government will	3		ENGR 2302	Engineering Mechanics-Dynamics will	3	
(Core 070N)	transfer as ASU's POLS 2305			(Program	transfer as ASU's ENGR 2302		
	Linius mitu Dhuming II (Lontumo)	2		Requirement)	Differential Equations will transfer as	2	
PHYS 2326	University Physics II (Lecture)	3		MATH 2320°	Differential Equations will transfer as	3	
(Core 030N &	Will transfer as ASU's PHYS			(iviajor Support	ASU S MATH CENA		
Course)	2326			coursej			
PHYS 2126	University Physics II (Lah) will	1		FCON 2301	Principles of Macroeconomics OR	3	
(Core 030N &	transfer as ASU's PHYS 2126	-		OR FCON	Principles of Microeconomics will	5	
Major Support				2302 (Core	transfer as ASU's ECON 2301 <b>OR</b>		
Course)				080N)	a andjer werkee e 2001 2001 on		





		TOTAL DEGREE HOURS		60	
TOTAL	14		TOTAL	13	
			Sciences)		
			FCON 2302 (Social & Behavioral		

<sup>1</sup>MATH 2415 will transfer as MATH CENA. MATH 2415 is approved to substitute MATH 3415 for the purpose of this agreement with the David L. Hirschfeld Department of Engineering. If a student changes their major, the substitution will not apply to their new degree plan.

<sup>2</sup> ENGR 2105 will transfer as ENGR NENA. ENGR 2105 is approved to substitute ASU's GS 1181 Freshman Seminar course for the purpose of this agreement with David L. Hirschfeld Department of Engineering. If a student changes their major, the substitution will not apply to their new degree plan.

<sup>3</sup>MATH 2320 will transfer as MATH CENA. Students will then have the option to a) take MATH 3301 at ASU or b) take MATH 3324 at ASU. Please note, taking both, MATH 2320 and MATH 3301 are approved to substitute ASU's MATH 3324 for the purpose of this agreement with the David L. Hirschfeld Department of Engineering. If a student changes their major, the substitution will not apply to their new degree plan.

Houston Com	nunity College & Angelo State	Univer	rsity	Transfer Plan	for	
Engineering Sc	ience- Mechanical Engineering	Field	of St	tudy, A.S.		
Bachelor of Sci	ence in Mechanical Engineerin	g (B.S.	.M.E	E.)		
ASU Fall Semester Year 1		sch		ASU Spring Semester Year 1		sch
COMM 1315	Public Speaking	3		ENGR 2318	Sustainable Development Principles	3
(Area A 091)				(Program		
				Requirement)		
Creative Arts		3		ENGR 2332	Mechanics of Materials	3
(Core 050N)				(Program		
				Requirement)		
MATH 3301	Linear Algebra <b>OR</b> Applied	3		ENGR 3305	Probability and Risk in Engineering	3
OR MATH	Math for Engineering			(Program		
3324 (Major				Requirement)		
Support Course)						
ENGR 3404	Introduction to Fluid	4		MENG 3351	Measurement and Instrumentation	3
(Program	Mechanics			(Program		
Requirement)				Requirement)		
HIST 1302	History of the United States,	3		POLS 2306	Texas Government (Texas Constitution	3
(Core 060N)	1865 to Present			(Core 070N)	and Topics)	
	TOTAL	16			TOTAL	15
ASU Fall Semester Year 2		sch		ASU Spring Semester Year 2		sch
MENG 2311	Engineering	3		MENG		3
(Program	Thermodynamics			Elective		
Requirement)						





			(Program		
			Requirement)		
MENG 3441	Mechanisms and Dynamics of	4	MENG 4279	Mechanical Engineering Senior	2
(Program	Machines		(Program	Design I	
Requirement)			Requirement)		
ENGR 3331	Engineering Materials	3	MENG		3
(Program			Design		
Requirement)			Elective		
			(Program		
			Requirement)		
Mathematics/		3	MENG 3411	Heat Transfer	4
Science			(Program		
Elective			Requirement)		
(Program					
Requirement)					
			ENGR 4201	Professional Engineering Practice	2
			(Program	5	
			Requirement)		
	TOTAL	13		TOTAL	14
ASU Fall Seme	ster Year 3	sch			
Language,		3			
Philosophy &					
Filliosophy &					
Culture (Core					
Culture (Core 040N)					
Culture (Core 040N) MENG 4380	Mechanical Engineering	3			
Culture (Core 040N) MENG 4380 (Program	Mechanical Engineering Senior Design II	3			
Culture (Core 040N) MENG 4380 (Program Requirement)	Mechanical Engineering Senior Design II	3			
Culture (Core 040N) MENG 4380 (Program Requirement) MENG Design	Mechanical Engineering Senior Design II	3			
Culture (Core 040N) MENG 4380 (Program Requirement) MENG Design Elective	Mechanical Engineering Senior Design II	3			
Culture (Core 040N) MENG 4380 (Program Requirement) MENG Design Elective (Program	Mechanical Engineering Senior Design II	3			
Culture (Core 040N) MENG 4380 (Program Requirement) MENG Design Elective (Program Requirement)	Mechanical Engineering Senior Design II	3			
Culture (Core 040N) MENG 4380 (Program Requirement) MENG Design Elective (Program Requirement) MENG	Mechanical Engineering Senior Design II	3 3 3			
Culture (Core 040N) MENG 4380 (Program Requirement) MENG Design Elective (Program Requirement) MENG Technical	Mechanical Engineering Senior Design II	3 3 3			
Culture (Core 040N) MENG 4380 (Program Requirement) MENG Design Elective (Program Requirement) MENG Technical Elective	Mechanical Engineering Senior Design II	3 3 3			
Culture (Core 040N) MENG 4380 (Program Requirement) MENG Design Elective (Program Requirement) MENG Technical Elective (Program	Mechanical Engineering Senior Design II	3 3 3			
Culture (Core 040N) MENG 4380 (Program Requirement) MENG Design Elective (Program Requirement) MENG Technical Elective (Program Requirement)	Mechanical Engineering Senior Design II	3 3 3			
Culture (Core 040N) MENG 4380 (Program Requirement) MENG Design Elective (Program Requirement) MENG Technical Elective (Program Requirement)	Mechanical Engineering Senior Design II	3 3 3 12			





## Mechanical Engineering Fundamentals

- I. Overall GPA of at least 2.50.
- II. Completion of the sequence below with a GPA of at least 2.50:
  - Engineering 1201 Introduction to Engineering
  - Engineering 1304 Engineering Graphics
  - Engineering 2301\* Engineering Mechanics Statics
  - Engineering 2302\* Engineering Mechanics Dynamics
  - Engineering 2305 Electrical Circuits
  - Mathematics 2413\* Calculus I
  - Mathematics 2414\*- Calculus II
  - Physics 2325/2125\* Fundamentals of Physics I
  - Physics 2326/2126\* Fundamentals of Physics II
- III. Successful completion of the advancement exam.

\*A grade of "C" or better is required for these courses.

## **Additional Notes**

Please Note: This guide is for students to utilize as a reference of what courses they can take at each institution. It's possible for students to take these courses in a different sequence if they are coming in with prior credit or if there are changes to course offerings and degree plans. Therefore, it is encouraged for students to reach out to their academic advisor at each institution to discuss current course options and sequences.