2+2 Dallas College & Angelo State University Mechanical Engineering Plan

Dallas College & Angelo State University Transfer Plan for Associate of Science Degree with a Field of Study in Mechanical Engineering Bachelor of Science in Mechanical Engineering						
Dallas College Fall Semester Year 1		**sch**		**Dallas College Spring Semester Year 1**		**sch**
ENGL 1301[1] (Core 010N)	Composition I *will transfer as ASU's ENGL 1301*	3		ENGL 1302 (Core 010N)	Composition II *will transfer as ASU's ENGL 1302*	3
HIST 1301 (Core 060N)	United States History I *will transfer as ASU's HIST 1301*	3		PHED 1164[2]	Introduction to Physical Fitness and Wellness *will transfer as ASU's PA RPE*	1
MATH 2413[1] (Core 020N & Major Support Course)	Calculus I *will transfer as ASU's MATH 2413*	4		MATH 2414 (Major Support Course)	Calculus II *will transfer as ASU's MATH 2414*	4
GOVT 2305 (Core 070N)	Federal Government *will transfer as ASU's POLS 2305*	3		PHYS 2425 (Core 030N & Major Support Course)	University Physics I *will transfer as ASU's PHYS 2325 and PHYS 2125*	4
ENGR 1201 (Program Requirement)	Introduction to Engineering *will transfer as ASU's ENGR 1201*	2		ENGR 1304 (Program Requirement)	Engineering Graphics I *will transfer as ASU's* ENGR 1304	3
	TOTAL	**15**			TOTAL	**15**
Dallas College Fall Semester Year 2		**sch**		**Dallas College Spring Semester Year 2**		**sch**
MATH 2415[3] (Major Support Course)	Calculus III *will transfer as ASU's MATH NENA*	4		CHEM 1411 **OR** CHEM 1409 (Area B 090N & Major Support Course)	General Chemistry I **OR** General Chemistry for Engineering Majors *will transfer as ASU's CHEM 1311/1111* ***OR*** *CHEM NENA*	4
GOVT 2306 (Core 070N)	Texas Government *will transfer as ASU's POLS 2306*	3		MATH 2320[4] (Major Support Course)	Differential Equations *will transfer as ASU's MATH CENA*	3
ENGR 2301 (Program Requirement)	Engineering Mechanics – Statics *will transfer as ASU's ENGR 2301*	3		ENGR 2332 (Program Requirement)	Mechanics of Materials *will transfer as ASU's ENGR 2332*	3
HIST 1302 (Core 060N)	United States History II *will transfer as ASU's HIST 1302*	3		ENGR 2302 (Program Requirement)	Engineering Mechanics – Dynamics *will transfer as ASU's ENGR 2302*	3
PHYS 2426 (Core 030N &	University Physics II *will transfer as ASU's PHYS 2326 and PHYS 2126*	4		ENGR 2305 (Program Requirement)	Electrical Circuits I *will transfer as ASU's ENGR 2305*	3

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Major Support Course)						
	TOTAL	**17**			TOTAL	**16**
				AS TOTAL DEGREE HOURS		**63**

[1] Dallas College requires a grade of "C" or better for these courses.

[2] DC's PHED 1164 will transfer as ASU's PA RPE and is approved to substitute ASU's GS 1181 (Freshman Seminar Course & Major Support Course) by the David L. Hirschfeld Department of Engineering.

[3]MATH 2415 will transfer in 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.

[4]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.

[5]CHEM 1409 will transfer as CHEM NENA. CHEM 1409 is approved to substitute CHEM 1311/1111 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.

Dallas College & Angelo State University Transfer Plan for Associate of Science Degree with a Field of Study in Mechanical Engineering Bachelor of Science in Mechanical Engineering						
ASU Fall Semester Year 1		**sch**		**ASU Spring Semester Year 1**		**sch**
Creative Arts (Core 050N)	*Will transfer as ASU's Creative Arts*	3		Language, Philosophy, and Culture (Core 040N)		3
CS 1314 **OR** 1336 (Program Requirement)	Introduction to Programming and Problem Solving **OR** Computer Science I	3		ENGR 3305 (Program Requirement)	Probability and Risk in Engineering	3
MENG 2311 (Program Requirement)	Engineering Thermodynamics	3		MENG 3411 (Program Requirement)	Heat Transfer	4
ENGR 3331 (Program Requirement)	Engineering Materials	3		ENGR 3404 (Program Requirement)	Introduction to Fluid Mechanics	4

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MENG elective (Program Requirement)		3		ENGR 2318 (Program Requirement)	Sustainable Development Principles	3
MATH 3301 **OR** MATH 3324 (Major Support Course)	Linear Algebra **OR** Applied Math for Engineering	3				
	TOTAL	**18**			TOTAL	**17**
ASU Fall Semester Year 2		**sch**		**ASU Spring Semester Year 2**		**Sch**
MENG 4279 (Program Requirement)	Mechanical Engineering Senior Design I	2		ENGR 4201 (Program Requirement)	Professional Engineering Practice	2
MENG 3441 (Program Requirement)	Mechanisms and Dynamics of Machines	4		MENG 4380 (Program Requirement)	Mechanical Engineering Senior Design II	3
MENG Design elective (Program Requirement)		3		MENG Technical elective (Program Requirement)		3
Mathematics/ Science elective (Program Requirement)		3		MENG 3351 (Program Requirement)	Measurement and Instrumentation	3
COMM 1315 (Area A 091)	Public Speaking	3		Social and Behavioral Sciences (Core 080N)		3
				MENG Design elective (Program Requirement)		3
	TOTAL	**15**			**TOTAL**	**17**
				BSME Mechanical Engineering Complete Total		**130**

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ASU 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.