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

Dallas College & Angelo State University Transfer Plan for Associate of Science Degree with a Field of Study in Civil Engineering Bachelor of Science in Civil 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
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
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
	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		ENGR 2302 (Program Requirement)	Engineering Mechanics – Dynamics *will transfer as ASU's ENGR 2302*	3
HIST 1302 (Core 060N)	United States History II *will transfer as ASU's HIST 1302*	3		GOVT 2306 (Core 070N)	Texas Government *will transfer as ASU's POLS 2306*	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
PHYS 2426 (Core 030N & Major Support Course)	University Physics II *will transfer as ASU's PHYS 2326 and PHYS 2126*	4		MATH 2320[4] (Major Support Course)	Differential Equations *will transfer as ASU's MATH CENA*	3
Creative Arts (Core 050N)		3		CHEM 1411 (Area B 090N & Major Support Course)	General Chemistry I *will transfer as ASU's CHEM 1311/1111*	4

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

	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.

Dallas College & Angelo State University Transfer Plan for Associate of Science Degree with a Field of Study in Civil Engineering Bachelor of Science in Civil Engineering						
ASU Fall Semester Year 1		**sch**		**ASU Spring Semester Year 1**		**sch**
ENGR 1307 (Program Requirement)	Plane Surveying	3		CENG 3341 (Program Requirement)	Geotechnical Engineering	3
CS 1314 **OR** 1336 (Program Requirement)	Introduction to Programming and Problem Solving **OR** Computer Science I	3		BIOL 1306/1106, 1307/1107, 1308/1108, 1309/1109, **OR** GEOL 1303/1103[4] (Major Support Course)	Principles of Bio I/Lab,*1307/1107 in Fall (Principles of Bio II/Lab), Human Bio/Lab, Man and the Environment/Lab, **OR** Physical Geology/Lab	4
ENGR 3331 (Program Requirement)	Engineering Materials	3		ENGR 3305 (Program Requirement)	Probability and Risk in Engineering	3
MATH 3301 **OR** MATH 3324 (Major Support Course)	Linear Algebra **OR** Applied Math for Engineering	3		ENGR 3404 (Program Requirement)	Introduction to Fluid Mechanics	4

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

Language, Philosophy, and Culture (Core 040N)		3		ENGR 2318 (Program Requirement)	Sustainable Development Principles	3
	TOTAL	**15**			TOTAL	**17**
ASU Fall Semester Year 2		**sch**		**ASU Spring Semester Year 2**		**Sch**
CENG 3311 (Program Requirement)	Introduction to Transportation Engineering	3		CENG 3352 (Program Requirement)	Hydrology and Hydraulics	3
CENG 3361 (Program Requirement)	Structural Analysis I	3		CENG 4380 (Program Requirement)	Civil Engineering Senior Design	3
COMM 1315 (Area A 091)	Public Speaking	3		ENGR 4201 (Program Requirement)	Professional Engineering Practice	2
CENG 3351 (Program Requirement)	Introduction to Environmental Engineering	3		Technical Elective (adv) (Program Requirement)		3
CENG/MATH/ Science Elective (adv) (Program Requirement)		3		Design Elective (adv) (Program Requirement)		3
Design Elective (adv) (Program Requirement)		3		Social and Behavioral Sciences (Core 080N)		3
	TOTAL	**18**			**TOTAL**	**17**
				BSCE Civil Engineering Complete Total		**130**

[4]Or other core science course outside of chemistry and physics with departmental approval.

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

ASU Civil 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 1307 – Plane Surveying or Engineering 1308 - Introduction to Geomatics
- Engineering 2301* - Engineering Mechanics – Statics
- Engineering 2302* - Engineering Mechanics – Dynamics
- 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.