

Student Name \_\_\_\_\_ SWTJC ID# \_\_\_\_\_ Email \_\_\_\_\_@SWTJC.edu Date \_\_\_\_\_

HIGH SCHOOL COURSES

Grade 9		HS Credit	College Credit	Grade 10		HS Credit	College Credit
FALL	SPRING			FALL	SPRING		
English I Pre-AP	English I Pre-AP	1	0	English II Pre-AP	English II Pre-AP	1	0
Geometry Pre-AP	Geometry Pre-AP	1	0	Algebra II Pre-AP	Algebra II Pre-AP	1	0
Pre-AP Biology	Pre-AP Biology	1	0	CHEM 1311/1111✓	Chem AP	1	4
World Geography or History	World Geography or History	1	0	World History	World History	1	0
PE	PE	1	0	Computer Programming /LOTE	Computer Programming/LOTE	1	0
Fine Arts	Fine Arts	1	0	Elective	Elective	1	0
Endorsement	Endorsement	1	0	Elective	Elective	1	0
STEM EDUC 1300	Elective	1	3	Elective	Elective	1	0
		8	3			8	4
Grade 11		HS Credit	College Credit	Grade 12		HS Credit	College Credit
FALL	SPRING			FALL	SPRING		
English III Pre-AP	English III Pre-AP	1	0	ENGL 1301 Comp I✓	ENGL 1302 Comp II✓	1	6
Precalculus Pre-AP	Precalculus Pre-AP	1	0	MATH 2413 Calculus I✓	MATH 2414 Calculus II	1	8
Science	Science	1	0	HS Physics	PHYS 2325/2125✓	1	4
HIST 1301 U S History I✓	HIST 1302 U S History II✓	1	6	GOVT 2305 Fed Gov. ✓	Economics	1	3
Adv Computer Prog/LOTE	Adv Computer Prog/LOTE	1	0	Elective	Elective	1	0
Elective	Elective	1	0	Elective	Elective	1	0
Elective	Elective	1	0	Elective	Elective	1	0
ENGR 1201 Intro-to Engineering	ENGR 1304 Engineering Graphics (DC)	1	5	Endorsement	Endorsement	1	0
		8	11			8	21
Completed 39 hours of college credit				High School Foundation w/ STEM Endorsement			

BEGIN COURSES AT SWTJC IN SUMMER

Summer Link		Credit Hours
ENGR 1307	Plane Surveying	3
ENGR 2332	Mechanics of Materials	3
Hours Completed		6

SWTJC Fall Semester Year 1		Credit Hours		SWTJC Spring Semester Year 1		Credit Hours
ENGR 2304	Programming for Engineers	3		ENGR 2305	Circuit Analysis I	3
ENGR 2301	Engineering Mechanics - Statics	3		ENGR 2105	Circuits Analysis I Lab	1
MATH 2415	Calculus III	4		ENGR 2308	Infrastructure Economics & Sustainability	3
PHYS 2326✓	University Physics II	3		ENGR 2302	Engineering Dynamics	3
PHYS 2126	University Physics II Lab	1		ECON 2301✓	Principles of Macroeconomics	3
Hours Completed		14		Hours Completed		13
				ASES Complete SWTJC Total 60 sch		

TRANSFER TO ANGELO STATE UNIVERSITY

ASU Bridge Summer		Credit Hours
GEOL 1304	Principles of Geology	4
ENGR 3305	Probability & Statistics Applied to Engr	3
Hours Completed		7

ASU Fall Semester Year 1		Credit Hours	ASU Spring Semester Year 1		Credit Hours
MATH 3324	Applied Engineering Math	3	CENG 3341	Geotechnical Engineering	3
ENGR 3331	Engineering Materials	3	CENG 3352	Hydrology and Hydraulics	3
CENG 3361	Structural Analysis	3	GOVT 2306	Texas Government	3
ENGR 3404	Introduction to Fluid Mechanics	4	Core Course	Creative Arts <sup>1</sup>	3
		13			12
ASU Fall Semester Year 2		Credit Hours	ASU Spring Semester Year 2		Credit Hours
CENG 3311	Transportation Engineering	3	ENGR 4201	Professional Engineering Practice	2
CENG xxxx	Advanced CENG Elective	3	CENG 4380	Civil Engineering Senior Design	3
CENG xxxx	Advanced CENG Elective	3	CENG xxxx	Advanced CENG Elective	3
CENG 3351	Introduction to Environmental Engineering	3	Core Course	Language, Philosophy, and Culture <sup>2</sup>	3
		12	COMM 1315	Public Speaking	3
					14
BSCE Total: SWTJC 66 + ASU 64 = 130 sch			BSCE Complete Total 127 sch		

<sup>1</sup> Selected from ASU creative arts core courses. See catalog for course options.  
<sup>2</sup> Selected from ASU language, philosophy, and culture core courses. See catalog for course options.

A.S. in Engineering Science  
Dual Credit Plan- Mechanical Engineering



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Geometry Pre-AP	Geometry Pre-AP	1	0	Algebra II Pre-AP	Algebra II Pre-AP	1	0
Pre-AP Biology	Pre-AP Biology	1	0	CHEM 1311/1111✓	Chem AP	1	4
World Geography or History	World Geography or History	1	0	World History	World History	1	0
PE	PE	1	0	Computer Programming /LOTE	Computer Programming/LOTE	1	0
Fine Arts	Fine Arts	1	0	Elective	Elective	1	0
Endorsement	Endorsement	1	0	Elective	Elective	1	0
STEM EDUC 1300	Elective	1	3	Elective	Elective	1	0
		8	3			8	4
Grade 11		HS Credit	College Credit	Grade 12		HS Credit	College Credit
FALL	SPRING			FALL	SPRING		
ENGL 1301 Comp I✓	ENGL 1302 Comp II✓	1	0	ENGL 1301 Comp I✓	ENGL 1302 Comp II✓	1	6
Precalculus Pre-AP	Precalculus Pre-AP	1	0	MATH 2413 Calculus I✓	MATH 2414 Calculus II	1	8
Science	Science	1	0	HS Physics	PHYS 2325/2125✓	1	4
HIST 1301 U S History I✓	HIST 1302 U S History II✓	1	6	GOVT 2305 Fed Gov. ✓	Economics	1	3
Adv Computer Prog/LOTE	Adv Computer Prog/LOTE	1	0	Elective	Elective	1	0
Elective	Elective	1	0	Elective	Elective	1	0
Elective	Elective	1	0	Elective	Elective	1	0
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Summer Link		Credit Hours
ENGR 2332	Mechanics of Materials	3
COMM 1315✓	Public Speaking	3
Hours Completed		6

SWTJC Fall Semester Year 1		Credit Hours		SWTJC Spring Semester Year 1		Credit Hours
ENGR 2304	Programming for Engineers	3		ENGR 2305	Circuit Analysis I	3
ENGR 2301	Engineering Mechanics - Statics	3		ENGR 2105	Circuits Analysis I Lab	1
MATH 2415	Calculus III	4		ENGR 2308	Infrastructure Economics & Sustainability	3
PHYS 2326✓	University Physics II	3		ENGR 2302	Engineering Dynamics	3
PHYS 2126	University Physics II Lab	1		ECON 2301✓	Principles of Macroeconomics	3
Hours Completed		14		Hours Completed		13
				ASES Complete SWTJC Total 60 sch		

TRANSFER TO ANGELO STATE UNIVERSITY

ASU Bridge Summer		Credit Hours
ENGR 2201	Computer Aided Design & Prototype Design	2
ENGR 3305	Probability & Statistics Applied to Engr	3
Hours Completed		5

ASU Fall Semester Year 1		Credit Hours	ASU Spring Semester Year 1		Credit Hours
MATH 3324	Applied Engineering Math	3	MENG 3351	Measurement & Instrumentation	3
ENGR 3331	Engineering Materials	3	MENG 3411	Heat Transfer	4
MENG 2311	Engineering Thermodynamics	3	MENG 3352	Computer Aided Engineering	3
ENGR 3404	Introduction to Fluid Mechanics	4	GOVT 2306✓	Texas Government	3
		13			13
ASU Fall Semester Year 2		Credit Hours	ASU Spring Semester Year 2		Credit Hours
MENG 3441	Mechanisms & Dynamics of Machines	4	ENGR 4201	Professional Engineering Practice	2
MENG xxxx	Advanced MENG Elective	3	MENG 4380	Mechanical Engineering Senior Design	3
MENG xxxx	Advanced MENG Elective	3	MENG xxxx	Advanced MENG Elective	3
Core Course✓	Creative Arts <sup>1</sup>	3	ELECTIVE	Math/Science Elective: BIOL 1308/1108, GEOL 1303/1103, MATH 3307, 3315, 3321, 4311, 4335	3
			Core Course✓	Language, Philosophy, & Culture <sup>2</sup>	3
		13			14
BSCE Total: SWTJC 66 + ASU 64 = 130 sch			BSCE Complete Total 127 sch		

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