



Associate of Science in Engineering Science

Bridging Semester		sch			sch	
EDUC 1100	Learning Frameworks ⁰	1	or	COLS 0300	College Success Skills ⁰	3
SWTJC Fall Semester Year 1				SWTJC Spring Semester Year 1		
HIST 1301✓	U.S. History I	3		ENGR 1304	Engineering Graphics	3
ENGL 1301✓	Composition & Rhetoric I	3		ENGL 1302✓	Composition & Rhetoric II	3
MATH 2413✓	Calculus I	4		MATH 2414	Calculus II	4
CHEM 1311✓	General Chemistry I	3		PHYS 2325✓	University Physics I	3
CHEM 1111	General Chemistry I Lab	1		PHYS 2125	University Physics I Lab	1
ENGR 1201	Introduction to Engineering	2		GOVT 2306✓	Texas Government	3
		16				17
SWTJC Fall Semester Year 2		sch		SWTJC Spring Semester Year 2		sch
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		MATH 2320	Differential Equations	3
PHYS 2326✓	University Physics II	3		Elective	Engineering Elective ¹	3
PHYS 2126	University Physics II Lab	1		ECON 2301✓	Principles of Macroeconomics	3
		14				13
✓ Core Courses (27 sch)²				ASES Complete SWTJC Total 60 sch		

⁰ EDUC 1100 required of all first time in college students. COLS 0300 required for students with any TSI deficiencies and does not count toward a degree.

¹ For mechanical or civil engineering choose ENGR 2302 Engineering Mechanics – Dynamics; for electrical engineering choose COSC 1320 C/C+ Structured Programming; for industrial engineering choose ENGR 2308 Engineering Economics.

² Though not necessary to complete the ASES degree, completing the General Education Core may provide advantages in transfer. To complete the General Education Core, take HIST 1302; GOVT 2305; SPCH 1311, 1315, or SPCH 1321; a creative arts course selected from ARTS 1301 or MUSI 1306; and a literature course selected from ENGL 2322/23 or ENGL 2332/33. See current catalog for more detailed choices.

For more information, please contact:

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