



# TAMUK Bachelor of Science in Chemical Engineering With ASES Transfer from SWTJC

Student Name \_\_\_\_\_ SWTJC ID# \_\_\_\_\_

SWTJC Email \_\_\_\_\_@SWTJC.EDU Advisor \_\_\_\_\_

By checking this box, you agree to allow Southwest Texas Junior College (SWTJC) to share your directory information with Texas A & M Kingsville (TAMUK) for the purpose of tracking and transfer assistance that is part of the SWJTC/TAMUK Memorandum of Understanding. SWTJC and TAMUK will not share this information with any third party members.

Student's Signature \_\_\_\_\_

Date \_\_\_\_\_

SWTJC Bridge Semester		sch				sch
EDUC 1100	Learning Framework <sup>1</sup>	2	or	COLS 0300	College Success Skills <sup>1</sup>	3
<b>SWTJC Fall Semester Year 1</b>				<b>SWTJC Spring Semester Year 1</b>		
HIST 1301 ✓	U. S. History I	3		ENGR 2308	Engineering Economics	3
ENGL 1301 ✓	Composition I	3		ENGL 1302 ✓	Composition 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
		<b>16</b>				<b>17</b>
<b>SWTJC Fall Semester Year 2</b>				<b>SWTJC Spring Semester Year 2</b>		
ENGR 2304	Programming for Engineers	3		ENGR 2305*	Circuit Analysis I	3
ENGR 2301	Engineering Mechanics – Statics <sup>2</sup>	3		ENGR 2105*	Circuits Analysis I Lab	1
MATH 2415	Calculus III	4		MATH 2320	Differential Equations	3
PHYS 2326 ✓	University Physics II	3		ENGR 2302	Engineering Mechanics – Dynamics <sup>2</sup>	3
PHYS 2126	University Physics II Lab	1		ECON 2301 ✓	Principles of Macroeconomics	3
		<b>14</b>				<b>13</b>
<b>Core Total SWTJC 27 + TAMUK 15 = 42 sch</b>				<b>ASES SWTJC Total 60 sch</b>		

<sup>1</sup> 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.

<sup>2</sup> ENGR 2301 and ENGR 2303 would be combined for credit in MEEN 2355 at TAMUK.

Our faculty and staff are pleased that you have indicated interest in this TAMUK engineering degree program. To help you achieve your higher education aspirations a TAMUK advisor will provide you with additional information and any help you may need. On behalf of the College of Engineering, I want to welcome you and assure you that the SWTJC college level courses noted above will all transfer and, except for those marked with an asterisk (\*), will apply toward the major you have indicated. You must earn a grade of "C" or higher in mathematics, science, and engineering courses in order to apply transfer coursework to your degree plan. You must also meet TAMUK's admission and GPA requirements. We look forward to your graduation.

Associate Dean, TAMUK Engineering \_\_\_\_\_

Date \_\_\_\_\_

TAMUK Fall Semester Year 1		sch		TAMUK Spring Semester Year 1		sch
CHEM 1312	Inorganic Chemistry II <sup>1</sup>	3		CHEN 2371	Conservation Principles <sup>1</sup>	3
CHEM 1112	Inorganic Chemistry II Lab <sup>1</sup>	1		CHEM 3323	Organic Chemistry I <sup>1</sup>	3
CHEM 3331	Physical Chemistry I	3		CHEM 3123	Organic Chemistry I <sup>1</sup>	1
Core Course ✓	Language, Philosophy and Culture <sup>2</sup>	3		HIST 1302 ✓	U. S. History II	3
COMS 2374 ✓	Professional Communication	3		Core Course ✓	Creative Arts <sup>3</sup>	3
		<b>13</b>				<b>13</b>
<b>TAMUK Fall Semester Year 2</b>				<b>TAMUK Spring Semester Year 2</b>		
CHEN 3392	Fluid Transport Phenomena	3		CHEM 3332	Physical Chemistry II	3
CHEN 3347	Chem. Engr. Thermodynamics I	3		CHEN 3310	Heat Transfer Phenomena	3
CHEM 3325	Organic Chemistry II <sup>1</sup>	3		CHEN 3371	Chem. Engr. Thermodynamics II	3
CHEM 3125	Organic Chemistry II <sup>1</sup>	1		CHEN 3321	Process Simulation	3
POLS 2301 ✓	Government and Politics of the U.S.	3				<b>12</b>
		<b>13</b>				
<b>TAMUK Fall Semester Year 3</b>				<b>TAMUK Spring Semester Year 3</b>		
CHEN 4316	Chemical Process Design II	3		CHEN 4317	Chemical Process Design III	3
CHEN 4373	Kinetics and Reactor Design	3		CHEN 4392	Process Dynamics and Control	3
CHEN 4278	Unit Operations Lab I	2		CHEN 4279	Unit Operations Lab II	2
CHEN 4389	Mass Transfer Phenomena	3		CHEN 4311	Biochemical Engineering	3
BIOL 1306	General Biology I	3				<b>11</b>
		<b>14</b>				
<b>Total SWTJC 60 + TAMUK 76 = 136 sch</b>				<b>BSCHE Complete Total 76 sch<sup>5</sup></b>		

<sup>1</sup> Completion Curriculum courses that elevate a transfer student to junior standing in the major.

<sup>2</sup> Selected from TAMUK language, philosophy, and culture core courses ANTH 2302; or ENGL 2331, 2342, ENGL 2362; or FREN 1311, FREN 1312, FREN 2311, FREN 2312; or HIST 2321, HIST 2322; or PHIL 1301; or SPAN 1313, SPAN 1314, SPAN 1373, SPAN 2301, SPAN 2302, SPAN 2311, SPAN 2312.

<sup>3</sup> Selected from TAMUK creative arts core courses ARTS 1303, COMM 2304, MUSI 2306, MUSI 2308, MUSI 2310, or THEA 2310.

<sup>4</sup> TAMUK native students graduate with 129 SCH, 7 sch less than SWTJC transfer students.