



TAMUK Bachelor of Science in Natural Gas 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 ¹ | 2 | or | COLS 0300 | College Success Skills ¹ |
| SWTJC Fall Semester Year 1 | | | | SWTJC Spring Semester Year 1 | |
| HIST 1301 ✓ | U. S. History I | 3 | | ENGR 1304* | Engineering Graphics |
| ENGL 1301 ✓ | Composition I | 3 | | ENGL 1302 ✓ | Composition II |
| MATH 2413 ✓ | Calculus I | 4 | | MATH 2414 | Calculus II |
| CHEM 1311 ✓ | General Chemistry I | 3 | | PHYS 2325 ✓ | University Physics I |
| CHEM 1111 | General Chemistry I Lab | 1 | | PHYS 2125 | University Physics I Lab |
| ENGR 1201 | Introduction to Engineering | 2 | | GOVT 2306 ✓ | Texas Government |
| | | 16 | | | 17 |
| SWTJC Fall Semester Year 2 | | sch | | SWTJC Spring Semester Year 2 | |
| ENGR 2304 | Programming for Engineers | 3 | | ENGR 2305* | Circuit Analysis I |
| ENGR 2301 | Engineering Mechanics – Statics ² | 3 | | ENGR 2105* | Circuits Analysis I Lab |
| MATH 2415* | Calculus III | 4 | | MATH 2320 | Differential Equations |
| PHYS 2326 ✓ | University Physics II | 3 | | ENGR 2302 | Engineering Mechanics – Dynamics ² |
| PHYS 2126 | University Physics II Lab | 1 | | ECON 2301 ✓ | Principles of Macroeconomics |
| | | 14 | | | 13 |
| Core Total SWTJC 27 + TAMUK 15 = 42 sch | | | | ASES SWTJC Total 60 sch | |

¹ 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.

² 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 _____

| | | Associate Dean, TAMUK Engineering _____ | | Date _____ | |
|--|---|---|--|---|--|
| TAMUK Fall Semester Year 1 | | sch | | TAMUK Spring Semester Year 1 | |
| CHEM 1312 | Inorganic Chemistry II ¹ | 3 | | CHEM 3323 | Organic Chemistry ¹ |
| CHEM 1112 | Inorganic Chemistry II Lab ¹ | 1 | | CHEM 3123 | Organic Chemistry Lab ¹ |
| GEOL 1303 | Physical Geology ¹ | 3 | | HIST 1302 ✓ | U. S. History II |
| GEOL 1103 | Physical Geology Lab ¹ | 1 | | Core Course ✓ | Creative Arts ³ |
| Core Course ✓ | Language, Philosophy and Culture ² | 3 | | COMS 2374 ✓ | Professional Communication |
| POLS 2301 ✓ | Government and Politics of the U.S. | 3 | | | |
| | | 14 | | | 13 |
| TAMUK Fall Semester Year 2 | | sch | | TAMUK Spring Semester Year 2 | |
| CEEN 3311 | Strength of Materials | 3 | | CHEN 3310 | Heat Transfer Phenomena |
| MEEN 3347 | Thermodynamics | 3 | | CHEN 3321 | Process Simulation |
| NGEN 3322 | Reservoir Engineering | 3 | | NGEN 3393 | Natural Gas Drilling Engineering |
| NGEN 3392 | Fluid Transport Phenomena | 3 | | EVEN 2372 | Environ. Engineering in a Global Society |
| | | 12 | | | 12 |
| TAMUK Fall Semester Year 3 | | sch | | TAMUK Spring Semester Year 2 | |
| CHEN 4389 | Mass Transfer Phenomena | 3 | | NGEN 4279 | Unit Operations Lab |
| NGEN 4375 | Natural Gas Distribution | 3 | | NGEN 4387 | Seismic Interp. & Well Logging |
| NGEN 4396 | Natural Gas Prod./Test. & Evaluation | 3 | | NGEN 4383 | Natural Gas Processes |
| STAT 4303 | Statistical Methods | 3 | | NGEN 4398 | Capstone Design Project |
| | | 12 | | NGEN 4478 | Natural Gas/Liquid Measurement |
| | | | | | 15 |
| Total SWTJC 60 + TAMUK 78 = 138 sch | | | | BSNGE Complete Total 135 sch⁴ | |

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

² 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.

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

⁴ TAMUK native students graduate with 124 SCH, 14 sch less than SWTJC transfer students.