



McLennan Community College &
Angelo State University
Bachelor of Science in
Civil Engineering Crosswalk



McLennan Community College & Angelo State University Transfer Plan for
Civil Engineering, Associate of Science (A.S.)
Bachelor of Science in Civil Engineering (B.S.C.E.)

Core Curriculum taken at MCC (28 hours)	MCC Course	ASU Course Equivalent
Communication 010 (6 hours)	ENGL 1301 ENGL 2311	ENGL 1301 ENGL 2311
Mathematics 020 (4 hours)	MATH 2413	MATH 2413
Life and Physical Science 030 (8 hours)	PHYS 2425 PHYS 2426	PHYS 2325/2125 PHYS 2326/2126
History 060 (3 hours)	HIST 1301	HIST 1301
Component Area A 091 (3 hours)	SPCH 1315	COMM 1315
Component Area B 090 (4 hours)	CHEM 1409	CHEM 1311/1111

Remaining Civil Engineering, A.S. Requirements (37 hours)	MCC Course	ASU Course Equivalent
2 hours	ENGR 1201	ENGR 1201
3 hours	ENGR 1304	ENGR 1304
3 hours	ENGR 2304	ENGR 2304
3 hours	ENGR 1307	ENGR 1307
4 hours	MATH 2414	MATH 2414
3 hours	ENGR 2301	ENGR 2301
3 hours	ENGR 2308	ENGR 2318
4 hours	MATH 2415 ¹	MATH NENA
3 hours	MATH 2318 ²	MATH NENA
3 hours	ENGR 2302	ENGR 2302
3 hours	ENGR 2332	ENGR 2332
3 hours	MATH 2320 ²	MATH NENA

Total MCC hours: 65

Notes for MCC Coursework
¹ MATH 2415 will transfer in as MATH NENA. MATH 2415 is approved to substitute MATH 3415 for the purpose of this agreement with the DLH Department of Engineering. If a student changes their major, the substitution will not apply to their new degree plan.
² MATH 2318 will transfer as MATH NENA and MATH 2320 will transfer as MATH NENA. Taking both MATH 2318 and MATH 2320 are approved to substitute ASU's MATH 3324. This is approved for the purpose of this agreement with the DLH Department of Engineering. If a student changes their major, the substitution will not apply to their new degree plan.

Upon transferring to ASU, you will meet with an academic advisor to review a personalized degree plan.

Remaining Core Curriculum taken at ASU (18 hours)	ASU Course
Language, Philosophy, and Culture 040 (3 hours)	Language, Philosophy, and Culture Core Course
Creative Arts 050 (3 hours)	Creative Arts Core Course
History 060 (3 hours)	HIST 1302
Government/Political Science 070 (6 hours)	POLS 2305 POLS 2306
Social and Behavioral Sciences 080 (3 hours)	Social and Behavioral Sciences Core Course

Remaining B.S.C.E. in Civil Engineering Requirements (46 hours)	ASU Course
3 hours	CENG 3361
4 hours	BIOL 1306/1106, 1307/1107, 1308/1108, 1309/1109, OR GEOL 1303/1103 ⁴
3 hours	ENGR 3331
4 hours	ENGR 3404
3 hours	CENG 3341
3 hours	ENGR 3305
3 hours	CENG 3311
3 hours	CENG 3351
3 hours	CENG/MATH/Science Elective (adv)
3 hours	CENG 3352
2 hours	ENGR 4201
3 hours	Technical Elective (adv)
3 hours	Design Elective (adv)
3 hours	CENG 4380
3 hours	Design Elective (adv)

Total ASU hours: 64

Total B.S.C.E. in Civil Engineering hours: 129

Notes for ASU Coursework

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

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.

Please note: this crosswalk is for students to utilize as a reference of what courses they can take at each institution. It's possible for there to be changes to course offerings and degree plans, therefore it is encouraged for students to meet with their academic advisor at both institutions to discuss current course options and sequence of courses.

If students do not take MATH 2318: Linear Algebra at MCC, students will then need to take either MATH 3301 or MATH 3324 at ASU. Students are encouraged to reach out to the Academic Advisor at ASU to determine the best course option to meet the MATH 3324 requirement.

Note for ASU's GS 1181 (Freshman Seminar) Course that is required for all ASU degree plans: Students that transfer to ASU may be required to take a Freshman Seminar (GS 1181) course their first semester at ASU unless they are exempt per applicable ASU guidelines at that time. If the student qualifies for an exemption from GS 1181, the student's advisor and/or department chair will assist with submitting an appropriate substitution request.