



Appendix A:

Associate of Science in Chemical Science to Bachelor of Science in Chemistry, Biochemistry Emphasis Academic Map ASU



SWTX Fall Semester Year 1		sch	SWTX Spring Semester Year 1		sch
ENGL 1301	Composition I	3	ENGL 1302	Composition II	3
HIST 1301	U. S. History I	3	HIST 1302	U.S. History II	3
MATH 2413	Calculus I ¹	4	MATH 2414	Calculus II	4
EDUC 1300	Learning Framework ²	3	Core Course	Language, Philosophy & Culture Core ³	3
CHEM 1311	General Chemistry I	3	CHEM 1312	General Chemistry II	3
CHEM 1111	General Chemistry I Lab	1	CHEM 1112	General Chemistry II lab	1
		17			17
SWTX Fall Semester Year 2		sch	SWTX Spring Semester Year 2		sch
CHEM 2423	Organic Chemistry I and Lab ⁴	4	CHEM 2425	Organic Chemistry II and Lab ⁴	4
GOVT 2305	Federal Government	3	GOVT 2306	Texas Government	3
SPCH 1315	Public Speaking	3	Core Course	Social & Behavioral Sciences Core	3
Core Course	Creative Arts Core	3	PHYS 2326	University Physics II	3
PHYS 2325	University Physics I	3	PHYS 2126	University Physics II Lab	1
PHYS 2125	University Physics I Lab	1			
		17			14
Core Total SWTX 42			ASSOCIATES OF SCIENCE (AS) SWTX Total 65 sch		

¹ Students may be required to take Mathematics 2312 before enrollment in Mathematics 2413. If so, this will reduce the number of elective hours.

² EDUC 1300 is required of all first time in college students. EDUC 1300 does not count toward degree requirements at SWTX. COLS 0300 required for students with any TSI deficiencies and does not count toward a degree at SWTX. EDUC 1300 will transfer as ASU's USTD NENA and is approved to substitute ASU's GS 1181 (Freshman Seminar (ASU course requirement)) for the purpose of this agreement with the Department of Chemistry and Biochemistry.

³ ASU's B.S. in Chemistry has a Sophomore Literature requirement. To meet this requirement, it is encouraged for students to select from the following courses: ENGL 2322, 2323, 2327, 2328, 2332, 2333.

⁴ CHEM 2423 and CHEM 2425 will transfer as ASU's CHEM NENA. CHEM 2423 and CHEM 2425 are approved to substitute ASU's CHEM 3451 and CHEM 3452 for the purpose of this agreement with the Department of Chemistry and Biochemistry. By making this substitution, students will need to take 8 hours of upper-level courses to complete the advanced hour requirement.

ASU Fall Semester Year 3		sch	ASU Spring Semester Year 3		sch
BIOL 1306/1106	Principles of Biology I	4	Elective (advanced)		4
BIOL 3403		4	BIOL 1307/1107	Principles of Biology II	4
Elective (advanced)		4	CHEM 3462	Physical Chemistry- Thermodynamics and Kinetics	4
CHEM 3421	Inorganic Quantitative Analysis	4	BIOL 3301		3
		16			15
ASU Fall Semester Year 4		sch	ASU Spring Semester Year 4		sch
CHEM 3461	Physical Chemistry- Quantum Chemistry and Spectroscopy	4	BIOL (advanced)		3
CHEM 4191	Research	1	CHEM 4301	Chemistry Capstone	3
CHEM 4331	Biochemistry	3	CHEM 4421	Instrumental Analysis	4
CHEM 3301	Descriptive Inorganic Chemistry	3	CHEM 4332	Intermediary Metabolism	3
CHEM 4233	Biochemistry Laboratory	2			
		13			13
			B.S. Chemistry Total Degree Hours 122		



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Additional Notes

Please Note: This guide is for students to utilize as a reference of what courses they can take at each institution. It's possible for students to take these courses in a different sequence if they are coming in with prior credit or if there are changes to course offerings and degree plans. Therefore, it is encouraged for students to reach out to their academic advisor at each institution to discuss current course options and sequences.

This transfer guide is active under the 2024-2025 and 2025-2026 Catalogs at ASU, students utilizing this transfer guide shall have full acceptance of academic credits earned at SWTX.