



Appendix A:

Associate of Science in Biological
 Science to Bachelor of Science in
 Biology with Life Science Secondary
 Teacher Certification Academic Map ASU



SOUTHWEST
 TEXAS COLLEGE

SWTX Fall Semester Year 1		sch	SWTX Spring Semester Year 1		sch
EDUC 1300	Learning Framework ¹	3	Core Course	Creative Arts	3
ENGL 1301	Composition I	3	ENGL 1302	Composition II	3
HIST 1301	U. S. History I	3	HIST 1302	U.S. History II	3
BIOL 1306	Biology for Science Majors I	3	BIOL 1307	Biology for Science Majors II	3
BIOL 1106	Biology for Science Majors I Lab	1	BIOL 1107	Biology for Science Majors II Lab	1
MATH 1314	College Algebra	3	MATH 1316 OR 2312	Plane Trigonometry OR Precalculus Math	3
		16			16
SWTX Fall Semester Year 2		sch	SWTX Spring Semester Year 2		sch
BIOL 1411	General Botany	4	GOVT 2306	Texas Government	3
GOVT 2305	Federal Government	3	CHEM 1312	General Chemistry II ²	3
SPCH 1315	Public Speaking	3	CHEM 1112	General Chemistry II Lab ²	1
CHEM 1311	General Chemistry I	3	Core Course	Social & Behavioral Sciences	3
CHEM 1111	General Chemistry I Lab	1	Core Course	Language, Philosophy & Culture	3
			BIOL 1413	General Zoology	4
		14			17
Core Total SWTX 42			ASSOCIATES OF SCIENCE (AS) SWTX Total 63 sch		

¹ 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 Biology.

² ASU does have a CHEM 2353/2153 Chemistry requirement; however, the Chemistry requirement can be satisfied by CHEM 1312/1112.

ASU Fall Semester Year 3		sch	ASU Spring Semester Year 3		sch
Elective ³		1-4	ED 4321*	Secondary Learning Theories and Curriculum	3
Chemistry, Geology, Physical Science or Physics (see program) ⁴		3-4	Biology (advanced)		3
Biology (advanced) ³		4	BIOL 3301	Genetics	3
BIOL 4451	Principles of Ecology	4	Biology (advanced)		4
		12-16			13
ASU Summer I Semester Year 3		sch	ASU Summer II Semester Year 3		sch
EPSY 3314	Culturally Diverse Learners	3	EPSY 3303	Child and Adolescent Development	3
		3			3
ASU Fall Semester Year 4		sch	ASU Spring Semester Year 4		sch
BIOL 4181	Seminar in Biology	1	ED 4323*	Teaching in the Secondary School	3
BIOL 3403	Cell Biology	4	ED 4973*	Supervised Teaching in the High School	9
ED 4322*	Teaching Techniques in the Secondary School	3			
BIOL 4303	Evolution	3			
RDG 4320*	Reading in the Secondary School Content Areas	3			
		14			12
			B.S. Biology, Life Science Secondary Teacher Certification Total Degree Hours 120-124		



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³ Some graduate programs and health professions schools require one semester of calculus, and all health professions schools require one semester of mathematical statistics (MATH 3321) or biometry (BIOL 4480). Students perusing a graduate program should consider taking MATH 2413, 2414, or 3321 or BIOL 4480. It is encouraged for students to work with their advisor on selecting the course that works best for their graduate program and that they have met the prerequisite requirements for that course.

⁴ Courses that could satisfy this requirement are: CHEM 3331; PS 1315/1115, 1317/1117; GEOL 1303/1103, 1304/1104; PHYS 1301/1101, 1302/1102.

* Students must be admitted in the Teacher Education Program (TEP) to enroll in any senior-level Education course or Reading 4320.

** Must complete all biology courses prior to clinical teaching (student teaching).

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.