



Angelo State University Bachelor of Science in Physics with AS Transfer from SWTX



SWTX Fall Semester Year 1

Courses		sch
EDUC 1300	Learning Framework ¹	3
ENGL 1301	Composition & Rhetoric I	3
MATH 2413	Calculus I	4
BIOL 1306	Biology for Science Majors I	3
BIOL 1106	Biology for Science Majors I Lab	1
		14

SWTX Spring Semester Year 1

Courses		sch
GOVT 2306	Texas Government	3
ENGL 1302	Composition & Rhetoric II	3
MATH 2414	Calculus II	4
BIOL 1307	Biology for Science Majors II	3
BIOL 1107	Biology for Science Majors II Lab	1
		14

SWTX Fall Semester Year 2

Courses		sch
GOVT 2305	Federal Government	3
SPCH 1315	Public Speaking	3
HIST 1301	U.S. History I	3
PHYS 2325	University Physics I	3
PHYS 2125	University Physics I Lab	1
ECON 2301	Principles of Macroeconomics	3
		16

SWTX Spring Semester Year 2

Courses		sch
PHYS 2326	University Physics II	3
PHYS 2126	University Physics II Lab	1
Core Elective	Creative Arts	3
Core Elective	Language, Philosophy, Culture	3
HIST 1302	U.S. History II	3
MATH 2320	Differential Equations ²	3
		16

Core Courses (43 sch)

AS Complete SWTX Total 60 sch

¹ EDUC 1300 required of all first time in college students. 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 Physics and Geoscience.

² MATH 2320 will transfer in as MATH NENA. MATH 2320 is approved to substitute MATH 3335 for the purpose of this agreement with the Physics and Geoscience department. If a student changes their major, the substitution will not apply to their new degree plan.

ASU Fall Semester Year 1

Courses		sch
CS 1314	Introduction to Programming & Problem Solving	3
PHYS 3301	Mathematical Methods for Scientists and Engineers	3
PHYS 3361	Modern Physics	3
MATH 3415	Calculus III	4
Elective		3
		16

ASU Spring Semester Year 1

Courses		sch
Elective		3
PHYS 1191, 3170, 4071, 4091, OR 4191	Freshman Research, Observational Methods in Astronomy, Internship: 1 to 6, Research: 1 to 6, OR Research	1
Elective		4
PHYS 3251	Advanced Physics Lab I	2
Elective		3
CHEM 1311/1111	General Chemistry I & Lab	4
		17

ASU Fall Semester Year 2

Courses		sch
PHYS 3310	Computational Physics	3
PHYS 3331 OR PHYS 3341	Mechanics OR Electricity and Magnetism	3
Physics (advanced)*		3
Physics (advanced)*		3
Physics (advanced)*		3
		15

ASU Spring Semester Year 2

Courses		sch
ENGL 3351	Advanced Technical Writing	3
Physics (advanced)*		3
PHYS 3332 OR PHYS 4363	Thermal and Statistical Physics OR Quantum Mechanics	3
PHYS 3252	Advanced Physics Lab II	2
Elective		3
		14

BS Complete ASU Total 122 sch

*Physics (advanced) as specified on the degree program.

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.