



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

Student Name \_\_\_\_\_ SWTX ID# \_\_\_\_\_ Date \_\_\_\_\_

Email \_\_\_\_\_@swtjc.edu Advisor \_\_\_\_\_

<b>SWTX Fall Semester Year 1</b>			<b>SWTX Spring Semester Year 1</b>		
		<b>sch</b>			<b>sch</b>
EDUC 1300	Learning Framework <sup>1</sup>	3	GOVT 2306	Texas Government	3
ENGL 1301	Composition & Rhetoric I	3	ENGL 1302	Composition & Rhetoric II	3
MATH 2413	Calculus I	4	MATH 2414	Calculus II	4
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
GOVT 2305	Federal Government	3			
		<b>17</b>			<b>14</b>
<b>SWTX Fall Semester Year 2</b>			<b>SWTX Spring Semester Year 2</b>		
		<b>sch</b>			<b>sch</b>
CHEM 1311	General Chemistry I	3	PHYS 2326	University Physics II	3
CHEM 1111	General Chemistry I Lab	1	PHYS 2126	University Physics II Lab	1
HIST 1301	U. History I	3	Core Elective	Creative Arts <sup>2</sup>	3
PHYS 2325	University Physics I	3	Core Elective	Language, Philosophy, Culture <sup>3</sup>	3
PHYS 2125	University Physics I Lab	1	HIST 1302	U.S. History II	3
ECON 2301	Principles of Macroeconomics	3	MATH 2320	Differential Equations <sup>4</sup>	3
SPCH 1315	Public Speaking	3			
		<b>17</b>			<b>16</b>
<b>Core Courses (42 sch)</b>			<b>AS Complete SWTX Total 64 sch</b>		

<sup>1</sup> EDUC 1300 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 Physics and Geoscience.

<sup>2</sup> Creative arts course selected from ARTS 1301, ARTS 1303, 1304, or MUSI 1306

<sup>3</sup> Language, Philosophy, Culture course selected from ENGL 2322, ENGL 2323, PHIL 1301, or PHIL 2306

<sup>4</sup> 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.

<b>ASU Fall Semester Year 3</b>			<b>ASU Spring Semester Year 3</b>		
CS 1314	Introduction to Programming & Problem Solving	3	Elective		3
PHYS 3301	Mathematical Methods for Scientists and Engineers	3	PHYS 1191, 3170, 4071, 4091, <b>OR</b> 4191	Freshman Research, Observational Methods in Astronomy, Internship: 1 to 6, Research: 1 to 6, <b>OR</b> Research	1
PHYS 3361	Modern Physics	3	Elective		4
MATH 3415	Calculus III	4	PHYS 3251	Advanced Physics Lab I	2
Elective		3	Elective		3
		<b>16</b>			<b>13</b>
<b>ASU Fall Semester Year 4</b>			<b>ASU Spring Semester Year 4</b>		
		<b>sch</b>			<b>sch</b>
PHYS 3310	Computational Physics	3	ENGL 3351	Advanced Technical Writing	3
PHYS 3331 <b>OR</b> PHYS 3341	Mechanics <b>OR</b> Electricity and Magnetism	3	Physics (advanced)*		3
Physics (advanced)*		3	PHYS 3332 <b>OR</b> PHYS 4363	Thermal and Statistical Physics <b>OR</b> Quantum Mechanics	3
Physics (advanced)*		3	PHYS 3252	Advanced Physics Lab II	2



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Physics (advanced)*		3		Elective		3
		<b>15</b>				<b>14</b>
<b>BS Complete ASU Total 122 sch</b>						

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

### Additional Notes

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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.

Revised: March **21, 2024** by: R. Davis (SWTX) & M. Hernandez (ASU)