



AS – Biology to  
BS – Biology – Biotechnology Concentration  
2024-2025 Transfer Pathway



Alamo College District						
AS Degree Requirements						
Alamo	Course Name	SCH	TAMUCT	Alamo	Course Name	TAMUCT
EDUC 1300	Learning Framework	3	EDUC 1300	GOVT 2305	Federal Government	3
ENGL 1301	Composition I	3	CORE 010	MATH 2413 <sup>2</sup>	Calculus I	4
MATH 1414 or MATH 1314	College Algebra (Precal Track) or College Algebra	4	MATH 1414 or MATH 1314	CHEM 2423 <sup>2</sup>	Organic Chemistry I	4
BIOL 1406 <sup>2</sup>	Biology for Science Majors I	4	CORE 030	CORE 060	American History Core	3
ENGL 1302 or ENGL 2311	Composition II or Technical Writing	3	CORE 010	GOVT 2306	Texas Government	3
MATH 2412	Precalculus	4	MATH 2412	CHEM 2425 <sup>2</sup>	Organic Chemistry II	4
BIOL 1407 <sup>2</sup>	Biology for Science Majors II	4	CORE 030	CORE 050	Creative Arts Core	3
CHEM 1411 <sup>2</sup>	General Chemistry I	4	CHEM 1411	CORE 040	Language, Philosophy & Culture Core	3
CHEM 1412 <sup>2</sup>	General Chemistry II	4	CORE 090	CORE 080	Social and Behavioral Sciences Core	3
CORE 060	American History	3	CORE 060	PHYS 1401 <sup>2</sup>	General Physics I	4
						<b>Subtotal 70</b>

Alamo College District or Texas A&M University – Central Texas			
Additional Lower-Level or Upper-Level Degree Requirements			
Alamo	TAMUCT	Course Name	SCH
BIOL 2421 <sup>1,2</sup>	BIOL 2421	Microbiology for Science Majors	4
			<b>Subtotal 4</b>

Texas A&M University - Central Texas					
BS Degree Requirements					
TAMUCT	Course Name	SCH	TAMUCT	Course Name	SCH
BIOL 3452 <sup>2</sup>	Principles of Genetics	4	BIOL 4471 <sup>2</sup>	Molecular Biology	4
CHEM 4430 <sup>2</sup>	Biochemistry I	4	BIOL 4475 <sup>2</sup>	Proteomics	4
CHEM 3415 <sup>2</sup>	Analytical Chemistry	4	BIOL 4380 <sup>2</sup>	Evolution	3
MATH 3350 <sup>2</sup>	Principles of Bio-Statistics	3	BIOL 4451 <sup>2</sup>	Bioinformatics	4
BIOL 4470 <sup>2</sup>	Cell Biology	4	BIOL 4395 <sup>2</sup>	Biology Capstone	3
CHEM 4415 <sup>2</sup>	Instrumental Analysis	4	Elective	Elective - Faculty Approved	4
BIOL 3380 <sup>2</sup>	Research Methods	3	Elective	Elective - Faculty Approved	3
					<b>Subtotal 51</b>
					<b>Total 125</b>

**Notes/Comments**

TAMUCT offers upper-level courses (those labeled 3XXX-5XXX), while all lower-level courses (those labeled 1XXX-2XXX) should be completed at Alamo. A minimum of 120 semester credit hours is required for all baccalaureate degrees. Pathways may exceed 120 semester credit hours, as certain courses required for the associate degree are transferable but not applicable to the baccalaureate degree. For help with pathway planning, please speak with an [academic advisor](#) or [enrollment specialist](#). *This pathway is intended for planning and visualization purposes and is subject to change.*

- The AS does not fulfill all the lower-level courses required for the undergraduate degree. Students will need to complete the remaining lower-level courses at Alamo. Please discuss the consortium agreement procedure with a TAMUCT [financial aid advisor](#).
- Courses must be completed with a "C" or better.