



**AS – Biology – Human Biology to  
BS – Biology  
Biotechnology Concentration  
2022-2023 Transfer Pathway**



AS Degree Requirements							
Central Texas College							
CTC	TAMUCT	Course Name	SCH	CTC	TAMUCT	Course Name	SCH
MATH 1414	CORE 090	College Algebra	4	BIOL 2421 <sup>2</sup>	BIOL 2421	Microbiology for Science Majors	4
BIOL 1406 <sup>2</sup>	CORE 030	Biology for Science Majors I	4	CHEM 2423 <sup>2</sup>	CHEM 2423	Organic Chemistry I	4
ENGL 1301	CORE 010	Composition I	3	CORE 080	CORE 080	Social & Behavioral Science Core Selection	3
HIST 1301	CORE 060	United States History I	3	GOVT 2305	CORE 070	Federal Government	3
BIOL 1407 <sup>2</sup>	CORE 030	Biology for Science Majors II	4	CHEM 2425 <sup>2</sup>	CHEM 2425	Organic Chemistry II	4
CHEM 1411 <sup>2</sup>	CHEM 1411	General Chemistry I	4	CORE 040	CORE 040	Language, Philosophy & Culture Core Selection	3
SPCH 1315, 1318 or 1321	CORE 010	Public Speaking, Interpersonal Communication or Business & Professional Communication	3	GOVT 2306	CORE 070	Texas Government	3
HIST 1302	CORE 060	United States History II	3	CORE 050	CORE 050	Creative Arts Core Selection	3
CHEM 1412 <sup>2</sup>	CORE 090	General Chemistry II	4	KINE	KINE	Physical Activity	1
<b>Subtotal</b>							<b>60</b>

Additional Lower-Level or Upper-Level Degree Requirements			
Central Texas College or Texas A&M University – Central Texas			
Central Texas College	Texas A&M University - Central Texas	Course Name	SCH
MATH 2313 <sup>1</sup>	Degree Requirement	Calculus I	3
PHYS 1401 <sup>1,2</sup>	Degree Requirement	College Physics I (Lecture + Lab)	4
Any Level Elective <sup>1,3</sup>	Degree Requirement	Any Level Elective	1
<b>Subtotal</b>			<b>8</b>

Upper-Level Degree Requirements					
Texas A&M University - Central Texas					
Texas A&M University - Central Texas	Course Name	SCH	Texas A&M University - Central Texas	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 - Faculty Approved	Elective - Faculty Approved	4
BIOL 3380 <sup>2</sup>	Research Methods	3	Elective - Faculty Approved	Elective - Faculty Approved	4
<b>Subtotal</b>					<b>52</b>
<b>Total</b>					<b>120</b>

**Notes/Comments**

Texas A&M-Central Texas is an upper-level institution offering 3xxx-5xxx level courses. All 1xxx-2xxx level courses must be completed at a different institution.

For help with pathway planning, student should speak with an [academic advisor](#). This guide is intended for planning and visualization purposes only.

- Not all Degree Requirement courses are completed with the AS. Student will need to complete these remaining lower-level courses at the community college. Please consult a TAMUCT financial aid counselor regarding the consortium agreement process.
- Courses must be completed with a "C" or better.
- Lower-Level Electives, Any Level Electives, Component Area Options or Degree Requirements (DEG REQ) may consist of the FOS courses: BIOL 1406, BIOL 1407, CHEM 1411, CHEM 1412, CHEM 2423, PHYS 1401 or (the 3 credit hour course plus the 1 credit hour lab).