



## NCTC ASSOCIATE OF SCIENCE (AS) GENERAL STUDIES DEGREE SUGGESTED PATHWAY FOR BIOLOGY MAJORS (2022-2023)

The following is a recommended sequence of courses for students intending on majoring in a **Biology field** at a Texas public university. The Associate of Science (AS) General Studies degree is designed to transfer into a bachelor's degree at a four-year public university in the state of Texas. The transfer university is the final authority on determining if all the courses within the NCTC Associate of Science degree are transferable and applicable for an intended major, so students should consult with an advisor at the university level regarding all coursework to be completed at NCTC.

Students placing at college preparatory levels will have additional courses to complete before taking eligible college-level courses in this sequence, and some courses may have pre-requisites; please check the course descriptions in the NCTC catalog. The number of courses taken each semester can also be adjusted as several core classes are offered during Summer and Mini-mesters; this sequence only maps out Fall and Spring semesters. **Depending on how many credit hours you have already attempted, all courses on this pathway may not be eligible for Financial Aid through NCTC.**

FIRST SEMESTER		CREDIT HOURS
EDUC 1300	Learning Frameworks	3
HIST 1301	U.S. History I ( <i>up to 1865</i> )	3
MATH Core	MATH 2412-Pre-Calculus I or MATH 1316-Trigonometry**	3-4
ENGL 1301	Composition I	3
1 <sup>st</sup> LAB SCIENCE Core	BIOL 1406-Biology for Science Majors I or BIOL 1411-Botany*	<u>4</u>
		<b>16-17</b>
SECOND SEMESTER		
ENGL 2311 or 1302	Technical Writing or Composition II	3
HIST 1302 or 2301	U.S. History II ( <i>1865 to present</i> ) or Texas History	3
ARTS Core	MUSI 1306 or other Creative Arts core	3
2 <sup>nd</sup> MATH	MATH 2413-Calculus I*	4
2 <sup>nd</sup> LAB SCIENCE Core	BIOL 1407-Biology for Science Majors II or BIOL 1413-Zoology*	<u>4</u>
		<b>17</b>
THIRD SEMESTER		
GOVT 2305	American National Government	3
SPCH 1311, 1315, 1321	Intro. to Communication, Public Speaking, or Business and Professional Speech	3
SOCIAL/BEHAV Core	ANTH 2346-General Anthropology or other Social Science core	3
Elective	PHYS 1401-College Physics I or PHYS 2425-University Physics I**	4
3 <sup>rd</sup> LAB SCIENCE Core	CHEM 1411-General Chemistry I**	<u>4</u>
		<b>17</b>
FOURTH SEMESTER		
GOVT 2306	Texas Government	3
LANG/PHIL/CULTURE Core	HUMA 1301-Intro. to Humanities or other Lang/Phil/Culture core	3
Elective	PHYS 1402-College Physics II or PHYS 2426-University Physics II*	4
4 <sup>th</sup> LAB SCIENCE Core	CHEM 1412-General Chemistry II	<u>4</u>
		<b>14</b>
<i>Total Credit Hours (apply for Graduation!)</i>		<b>64-65*</b>

\*Consult with your intended transfer university AND an advisor to determine which NCTC courses would satisfy both elective and core requirements for your major, and also how many credit hours beyond the 60 hours required for an AA or AS degree are transferable.

\*\*MATH 1314 is a prerequisite to CHEM 1411, and MATH 1314 along with either MATH 1316 or 2412 are prerequisites to MATH 2413 and PHYS1401 or 2425. Some Math prerequisites may be satisfied by earning required scores on **CLEP, AP, IB, ACT, or SAT**.  
Until you have completed the Math prerequisites for this AS pathway you will be under an AA-Pre-STEM pathway major.

**NCTC ADVISING & TRANSFER QUESTIONS: [advising@nctc.edu](mailto:advising@nctc.edu)**

MIDWESTERN STATE (MSU): <https://msutexas.edu/academics/undergraduate-majors-and-programs.php>  
 TEXAS WOMAN'S (TWU): <https://catalog.twu.edu/undergraduate/degrees-offered-twu/>  
 UNIVERSITY OF NORTH TEXAS (UNT): <https://registrar.unt.edu/ug-course-sequencing-and-transfer-guides>

TEXAS ON COURSE: <https://texasoncourse.org/>  
 TEXAS COMMON COURSE NUMBERING SYSTEM (TCCNS): [www.tccns.org](http://www.tccns.org)  
 WHAT CAN I DO WITH THIS MAJOR: <https://whatcanidowiththismajor.com/major/>  
 NORTH TEXAS COMMUNITY COLLEGE CONSORTIUM PATHWAYS: <http://ntxccc.org/content/transfer>