



NCTC ASSOCIATE OF ARTS (AA) GENERAL STUDIES DEGREE SUGGESTED PATHWAY FOR COMPUTER SCIENCE MAJORS (2022-2023)

The following is a recommended sequence of courses for students intending on majoring in a **Computer Science field** at a Texas public university. The Associate of Arts (AA) 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 Arts 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 2414-Calculus II**	4
ENGL 1301	Composition I	3
Elective	COSC 1436-Programming Fundamentals I*	<u>4</u>
		17
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 nd MATH	MATH 2318-Linear Algebra*	3
Elective	COSC 1437-Programming Fundamentals II*	<u>4</u>
		16
THIRD SEMESTER		
GOVT 2305	American National Government	3
SOCIAL/BEHAV Core	ECON 2301-Macroeconomics or other Social Science core	3
LANG/PHIL/CULTURE Core	PHIL 2306-Intro. to Ethics or other Lang/Phil/Culture core	3
Elective	COSC 2436-Programming Fundamentals III*	4
1 st LAB SCIENCE Core	PHYS 2425-University Physics I**	<u>4</u>
		17
FOURTH SEMESTER		
GOVT 2306	Texas Government	3
SPCH 1311, 1315, 1321	Intro. to Communication, Public Speaking, or Business and Professional Speech	3
Elective	COSC 2425-Comp. Org., MATH 2320-Diff. Equations, MATH 2415-Calculus III, or Science core*	3-4
2 nd LAB SCIENCE Core	PHYS 2426-University Physics II**	<u>4</u>
		13-14
	<i>Total Credit Hours (apply for Graduation!)</i>	63-64*

*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 pathway you will be under an AA-Pre-STEM pathway major.

NCTC ADVISING & TRANSFER QUESTIONS: 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
 WHAT CAN I DO WITH THIS MAJOR: <https://whatcanidowiththismajor.com/major/>
 NORTH TEXAS COMMUNITY COLLEGE CONSORTIUM PATHWAYS: <http://ntxccc.org/content/transfer>