



NCTC ASSOCIATE OF SCIENCE (AS) GENERAL STUDIES DEGREE
ENGINEERING/PHYSICS/ARCHITECTURE PATHWAY
 2023-2024 CATALOG

The following is a recommended sequence of courses for students intending on majoring in an **Engineering/Physics or Architecture field** at a Texas public university, and maps out how you can earn your **Associate of Science (AS) General Studies degree** from NCTC as well. 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 always consult with an advisor at the university level regarding approved and required coursework.

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 prerequisites. Please check the course descriptions in the [NCTC catalog](#). This suggested sequence only maps out Fall and Spring semesters however the [number of courses taken each semester](#) can be adjusted if classes are also taken during Summer and/or Minimesters. Depending on how many credit hours you have already attempted, **all courses on this pathway may not be [Financial Aid](#) eligible through NCTC** however there are other resources to help with [paying for college](#).

FIRST SEMESTER		CREDIT HOURS
ENGL 1301	Composition I	3
EDUC 1300	Learning Frameworks	3
HIST 1301	U.S. History I (<i>up to 1865</i>)	3
MATH Core	MATH 2414-Calculus II**	4
1 st LAB SCIENCE Core	CHEM 1411-General Chem. 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 2415-Calculus III	4
2 nd LAB SCIENCE Core	CHEM 1412-General Chem. II, BIOL 1406-Bio. for Science Majors, or BIOL 2401-A&P I*	<u>4</u>
		17
THIRD SEMESTER		
GOVT 2305	American National Government	3
SPCH 1311, 1315 or 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	MATH 2320-Differential Equations or MATH 2305-Discrete Math*	3
Elective	PHYS 2425-Engineering Phys. I or PHYS 1401-College Phys. I**	<u>4</u>
		16
FOURTH SEMESTER		
GOVT 2306	Texas Government	3
LANG/PHIL/CULTURE Core	PHIL 2306-Intro. to Ethics or other Lang/Phil/Culture core	4
Elective	MATH 2318-Linear Alg. or COSC 1436-Program. Fund. I*	3-4
4 th LAB SCIENCE	PHYS 2426-University Physics II or PHYS1402-College Physics II	<u>4</u>
		13-14
	<i>Total Credit Hours (apply for Graduation!)</i>	64*

*Consult with your intended transfer university 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, PHYS, and certain Science courses have prerequisites, some of which may be waived if required scores have been earned on [CLEP, AP, IB, or other credits by exam](#). Until prerequisites for this pathway have been completed, students will be in an AA-PreSTEM pathway major.

NCTC ADVISING: www.nctc.edu/advising

NCTC TRANSFER SCHOOLS & INFO: www.nctc.edu/transfer

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 PATHWAYS: <http://ntxccc.org/content/transfer>