



NCTC ASSOCIATE OF SCIENCE (AS) GENERAL STUDIES DEGREE SUGGESTED PATHWAY FOR ENGINEERING/PHYSICS/ARCHITECTURE MAJORS (2021-2022)

The following is a recommended sequence of courses for students intending on majoring in an **Engineering/Physics/Architecture 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 takes into account 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
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 2413-Calculus I**	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 2414-Calculus II	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 2415-Calculus III*	4
Elective	PHYS 2425-Engineering Phys. I or PHYS 1401-College Phys. I**	<u>4</u>
		17
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., MATH 2320-Diff. Equations, 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</i>	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 PHYS 1401 or 2425. Until you have completed these prerequisites you will be under a General Studies major (AA or AS degree). Some Math prerequisites may be satisfied by earning required scores on CLEP, AP, IB, ACT, or SAT. Please see an advisor at NCTC for details.

TRANSFER RESOURCES

NCTC COUNSELING AND ADVISING QUESTIONS: advising@nctc.edu

COLLEGE FOR ALL TEXANS: www.collegeforalltexans.com

TEXAS COMMON COURSE NUMBERING SYSTEM (TCCNS): www.tccns.org

NORTH TEXAS COMMUNITY COLLEGE CONSORTIUM TRANSFER COLLABORATIVE:

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