A.S. Chemical Engineering 2021-2022

EXPECTED DEGREE

PROGRAM DESCRIPTION

AS in Engineering - Chemical (60 sch)

+ These courses are only offered in the semester indicated.

** Please see faculty advisor or division chair to discuss requirements for your transfer university.

Division Chairs: Dr. Mary Hearron, Dr. Paula Wilhite

Faculty Advisor: Dr. Drew Murphy (dmurphy@ntcc.edu) 903.434.8214

Students should consult the division chair or a faculty advisor early in their program of study. These are suggested courses for students who plan to transfer to a four-year college or university and major in chemical engineering. Transferability and specific requirements can be determined only by the receiving institution. Only college-level courses apply toward completion of this curriculum and the graduation requirements for the A.S. **CIP: 24.0102**

Tuition Costs and Scholarship Information for this degree can be found at: https://catalog.ntcc.edu/Information for Financial Aid assistance can be found at: https://catalog.ntcc.edu/

RECOMMENDED COURSE SELECTION

RECOMMENDED COURSE SELECTION				
Fall 1st Year	SCH	Semester Completed	Grade	Notes for Students:
MATH 2413 - Calculus I ^	4			** Meet with faculty advisor or division chair ^ Prerequisite for Calculus I (MATH 2413): Precalculus (MATH 2412) or equivalent or approval by division chair
CHEM 1411 - Gen Chemistry I	4			
ENGL 1301 - English Comp I	3			
Semester Credit Hours	11			
Spring 1st Year	SCH	Semester Completed	Grade	Notes for Students:
MATH 2414 - Calculus II	4			
PHYS 2425 - Advanced Physics I	4			** Meet with faculty advisor or division chair DO THIS: Schedule campus tour w/ transfer university. ^ CHEM 1412 - Gen Chemistry II is also offered in Sum II semester.
CHEM 1412 - Gen Chemistry II ^	4			
ENGL 2311 - Tech & Business Writing	3			
Semester Credit Hours	15			
Summer 1st Year	SCH	Semester Completed	Grade	Notes for Students:
Core Course: History	3			
Core Course: History	3			
Semester Credit Hours	6			
Fall 2nd Year	SCH	Semester Completed	Grade	Notes for Students:
MATH 2415 - Calculus III	4			
PHYS 2426 - Advanced Physics II +	4			
CHEM 2423 - Organic Chemistry I +	4			
Core Course: Government	3			
Semester Credit Hours	15			
Spring 2nd Year	SCH	Semester Completed	Grade	Notes for Students:
MATH 2320 - Diffentials Equations	3			
CHEM 2425 - Organic Chemistry II	4			
ECON 2301 - Prin of Macroeconomics I	3			
Core Course: Government	3			
Semester Credit Hours	13			DO THIS: Apply for graduation for AS Engineering

Total Required Associate of Science in Engineering (Chemical) = 60 Semester Credit Hours

CAREER OPPORTUNITIES - All data listed below incorporate Northeast Texas jobs and entry wages found on http://www.texaswages.com/WDAWages

Career option #1 Chem Eng Tech Career option #2 Chemical Engineer Career option #3 Chemical Engineer

\$Starting Salary \$63,182 \$Starting Salary \$84,720 \$Starting Salary \$110,000

w/Associate's Degree w/Bachelor's Degree w/Doctoral Degree