A.S. Mechanical Engineering 2021-2022

EXPECTED DEGREE

AS in Engineering - Mechanical (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.

PROGRAM DESCRIPTION

Division Chair: Dr. Paula Wilhite (pwilhite@ntcc.edu) 903-434-8281

Faculty Advisor: Mark Ellermann (mellermann@ntcc.edu) 903-434-8297

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 mechanical 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

Fall 1st Year	SCH	Semester Completed	Grade	Notes for Students:
MATH 2413 - Calculus I ^	4			
CHEM 1409 - Gen Chem for Eng Majors +	4			
ENGR 1201 - Intro to Eng +	2			
ENGL 1301 - English Comp I	3			^ Prerequisite for Calculus I (MATH 2413): Precalculus (MATH 2412) or equivalent or approval by division chair
Semester Credit Hours	**13**			
Spring 1st Year	**SCH**	**Semester Completed**	**Grade**	**Notes for Students:**
MATH 2414 - Calculus II	4			
PHYS 2425 - Advanced Physics I	4			
ENGL 2311 - Tech & Business Writing	3			
ENGR 1304 - Engineering Graphics I +	3			
Semester Credit Hours	**14**			
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			
ENGR 2301 - Statics +	3			
Core Course: Government	3			
Semester Credit Hours	**14**			
Spring 2nd Year	**SCH**	**Semester Completed**	**Grade**	**Notes for Students:**
MATH 2320 - Differential Equations +	3			
ENGR 2302 - Dynamics +	3			
ECON 2301 - Prin of Macroecon I	3			
Core Course: Government	4			
Semester Credit Hours	**13**			**DO THIS:** Apply for graduation for AS Engineering

Total Required Associate of Science in Engineering (Mechanical) = 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	*Mechanical Tech*	*Career option #2*	*Mechanical Eng*	*Career option #3*	*Mechanical Engineer*
$Starting Salary w/Associate's Degree	*$44,274*	*$Starting Salary w/Bachelor's Degree*	*$61,538*	*$Starting Salary w/Doctoral Degree*	*$84,614*