

# A.S. Physics 2021-2022

## EXPECTED DEGREE

### AS in Physics (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 physics. 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 <sup>^</sup>	4			^ Prerequisite for Calculus I (MATH 2413): Precalculus (MATH 2412) or equivalent or approval by division chair *See division chair for approval of alternate choices.
CHEM 1409 - Gen Chem for Engr +*	4			
ENGL 1301 - English Comp I	3			
Core Course: Communications	3			
<b>Semester Credit Hours</b>	<b>14</b>			
Spring 1st Year	SCH	Semester Completed	Grade	Notes for Students:
MATH 2414 - Calculus II	4			
PHYS 2425 - Advanced Physics I	4			
Core Course: English (CAO) A	3			
Core Course: Creative Arts	3			
<b>Semester Credit Hours</b>	<b>14</b>			
Summer 1st Year	SCH	Semester Completed	Grade	Notes for Students:
Core Course: History	3			
Core Course: History	3			
<b>Semester Credit Hours</b>	<b>6</b>			
Fall 2nd Year	SCH	Semester Completed	Grade	Notes for Students:
MATH 2415 - Calculus III	4			*See division chair for alternate choices.
MATH 2318 - Linear Algebra +*	3			
PHYS 2426 - Advanced Physics II +	4			
Core Course: Government	3			
<b>Semester Credit Hours</b>	<b>14</b>			
Spring 2nd Year	SCH	Semester Completed	Grade	Notes for Students:
MATH 2320 - Differential Equations +*	3			DO THIS: Apply for graduation for AS Physics *See division chair for alternate choices.
Core Course: Social/Behavioral	3			
Core Course: Government	3			
Core Course: Lang/Phil/Cultu	3			
<b>Semester Credit Hours</b>	<b>12</b>			

**Total Required Associate of Science in Physics = 60 Semester Credit Hours**

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

<i>Career option #1</i>	<i>Life, Phys Tech</i>	<i>Career option #2</i>	<i>Project Engineer</i>	<i>Career option #3</i>	<i>Quantitative Research</i>
<i>\$Starting Salary</i>	<i>\$46,740</i>	<i>\$Starting Salary</i>	<i>\$74,000</i>	<i>\$Starting Salary</i>	<i>\$86,000</i>
<i>w/Associate's Degree</i>		<i>w/Bachelor's Degree</i>		<i>w/Doctoral Degree</i>	