

Student Science Related Career and College Pathway Course Preparation Recommendations

The table below provides pathways with math and science course recommendations that will help you to better prepare for a science-based career.

Pathway	Technical College CTE in Health Science	Technical College CTE in STEM/Engineering	College Science or Pre-medical
Grade 9	<ul style="list-style-type: none"> •Biology (Y) •Intro to Ag, Food, and Natural Resource, via Ag Dept (S) 	<ul style="list-style-type: none"> •Biology (Y) 	<ul style="list-style-type: none"> •Biology (Y)
	<ul style="list-style-type: none"> •Algebra I (Y) 	<ul style="list-style-type: none"> •Algebra I (Y) 	<ul style="list-style-type: none"> •Algebra I (Y)
Grade 10	<ul style="list-style-type: none"> •Chemistry (Y) For Vet Tech: <ul style="list-style-type: none"> •Animal Science, via Ag Dept (S) 	<ul style="list-style-type: none"> •Chemistry (Y) 	<ul style="list-style-type: none"> •Chemistry (Y)
	<ul style="list-style-type: none"> •Geometry (Y) 	<ul style="list-style-type: none"> •Geometry (Y) 	<ul style="list-style-type: none"> •Geometry (Y)
Grade 11 & 12	<ul style="list-style-type: none"> •Anatomy & Physiology* via SCN (Y) •Biochemistry* (Y) •General Chemistry* (Y) •Medical Terminology* via SCN (S) •Biomedical Science (S) For Vet Tech: <ul style="list-style-type: none"> •Vet Medical Terminology,** via Ag Dept (S) 	<ul style="list-style-type: none"> •Physics (Y) 	<ul style="list-style-type: none"> •Physics (Y) •Anatomy & Physiology* via SCN (Y) •Biochemistry* (Y) •General Chemistry* (Y) •Medical Terminology* via SCN (S) •Biomedical Science (S) •Aquatic Science (S)
	<ul style="list-style-type: none"> •Algebra II (Y) 	<ul style="list-style-type: none"> •Algebra II (Y) •Pre-Calculus, Calculus, or AP Calculus (Y) •Statistics (Y) 	<ul style="list-style-type: none"> •Algebra II (Y) •Pre-Calculus, Calculus, or AP Calculus (Y) •Statistics (Y)
<i>Example Degrees</i>	<i>Dental Hygienist, Fire Medic, Medical Laboratory Technician, Nursing, Paramedic Tech, Radiography, Veterinary Technician, Medical Assistant, Medical Coding Specialist, Phlebotomy Technician, Surgical Technologist, etc.</i>	<i>Automation Systems Technology, Civil Engineering Technology, Electromechanical Technology, Manufacturing Engineering Technology, Mechanical Design Engineering Technology, Emerging Technologies, etc.</i>	<i>Biology, Biochemistry, Biophysics, Cellular Biology, Ecology, Genetics, Aquatic Biology, Microbiology, Zoology, Astronomy, Atmospheric Sciences & Meteorology, Chemistry, Geological & Earth Sciences, Physics, etc.</i>

NOTES:

(Y) denotes year-long course

(S) denotes semester-long course

* denotes dual credit, meaning students will receive both GHS and CVTC credits

**denotes dual credit, meaning students will receive both GHS and NTC credits