

NATURAL RESOURCES PATHWAY

AGRICULTURE, FOOD & NATURAL RESOURCES

CAREER &
TECHNICAL
EDUCATION



PROCESS TECHNOLOGY & UTILITY OPERATION PROGRAM

CTE COURSE SEQUENCE

FOUNDATIONAL (9TH & 10TH)

- Intro to Career Pathways
- Industrial Safety and First Aid

TECHNICAL (11TH & 12TH)

- Intro to Occupational Safety
- Hydraulics - **S**
- Process Technology - **S**

ACADEMIC ELECTIVE CREDITS: S = SCIENCE M = MATH LA = LANGUAGE ARTS SS = SOCIAL STUDIES

ACADEMIC RIGOR

- Through Algebra 2
- Chemistry
- Physics

STUDENT ORGANIZATION (CTSO)

- Skills USA

CERTIFICATION

- Medic First Aid/CPR
- Water Safety
- OSHA 10
- Hunter Safety
- Food Handler/ServSafe
- North Slope Training Card
- NCCER - Pipeline

EARLY COLLEGE CREDIT OPTIONS

COLLEGE CREDITS

DUAL ENROLLMENT

- Technology Applications 1, 2, 3 3 cr
- Process Technology 3 cr
- Intro to Occupational Safety, Health & Environmental Awareness 3 cr

AP (WITH PASSING SCORE ON AP EXAM)

- AP Biology
- AP Chemistry
- AP Physics
- AP Environmental Science

MAPPING YOUR 4-YEAR PLAN*

9TH GRADE	CREDITS	10TH GRADE	CREDITS
<input type="checkbox"/> Introduction to Career Pathways	.5 cr	<input type="checkbox"/> Intro to Auto OR Small Engines	1.5 cr
<input type="checkbox"/> Technology Applications 1	.5 cr	<input type="checkbox"/> Industrial Safety and First Aid	.5 cr
<input type="checkbox"/> Algebra 1	1 cr	<input type="checkbox"/> Geometry	1 cr
<input type="checkbox"/> English 1	1 cr	<input type="checkbox"/> English 2	1 cr
<input type="checkbox"/> Biology	1 cr	<input type="checkbox"/> Physical Science	1 cr
<input type="checkbox"/> Civics	.5 cr	<input type="checkbox"/> World History	1 cr
<input type="checkbox"/> Health	.5 cr		
<input type="checkbox"/> PE	1 cr		
11TH GRADE	CREDITS	12TH GRADE	CREDITS
<input type="checkbox"/> Architectural Drafting 1 - M	.5 cr	<input type="checkbox"/> Introduction to Occupational Safety, Health & Environmental Awareness	1 cr
<input type="checkbox"/> Surveying 1	.5 cr	<input type="checkbox"/> Ecological Studies	1 cr
<input type="checkbox"/> Process Technology - S	1 cr	<input type="checkbox"/> Advanced Math	1 cr
<input type="checkbox"/> Algebra 2	1 cr	<input type="checkbox"/> English	1 cr
<input type="checkbox"/> English	1 cr	<input type="checkbox"/> Science	1 cr
<input type="checkbox"/> Science	1 cr	<input type="checkbox"/> U.S. Government	.5 cr
<input type="checkbox"/> U.S. History	1 cr	<input type="checkbox"/> AK History	.5 cr

*These are suggested courses to best prepare students for post-secondary transitions and credentialing. Actual courses may depend on school schedule availability and enrollment capacity. Some classes may be available at other locations through District-wide or course share options. Graduation requirements for number of credits and required courses are set at a district level and are subject to change. Talk to your counselor about your graduation requirements and to schedule your courses.

STACKABLE CREDENTIALS & DEGREES*

HIGH SCHOOL	COLLEGE
<input type="checkbox"/> Dual Enrollment <input type="checkbox"/> Academic AP	<input type="checkbox"/> Associate of Science - Process Technology <input type="checkbox"/> Bachelor of Science - Engineering <input type="checkbox"/> Bachelor of Science - Applied Technology <input type="checkbox"/> Master of Science - Engineering
INDUSTRY CERTIFICATION	
<input type="checkbox"/> Medic First Aid/CPR <input type="checkbox"/> Food Handler/ServSafe <input type="checkbox"/> Water Safety <input type="checkbox"/> North Slope Training Card <input type="checkbox"/> OSHA 10 <input type="checkbox"/> NCCER - Pipeline <input type="checkbox"/> Hunter Safety <input type="checkbox"/> Project Management	
APPRENTICESHIP	
<input type="checkbox"/> Trade Unions <input type="checkbox"/> Private Entity	<input type="checkbox"/> U.S. Armed Forces

*Listed Certifications, Apprenticeships and College Degree Programs represent a SAMPLE of available credentials. Available credentials are subject to change due to industry and postsecondary institution changes.