

# Career & Technical Education - 2017-2018

## Did you know?

FNSBSD Students can enroll part-time in Hutchison High School and take classes during the regular school day.

Transportation may be available!

## Tech Prep (TP):

Indicates college credit may be available.

## North Pole High School

Architectural Drafting 1A/1B (TP)  
 CAD 1A/1B (TP)  
 Drafting 1A/1B (TP)  
 Metalworking 1A/1B  
 Welding 1A/1B  
 Yearbook Publication 1A/1B  
 Computer Applications (TP)  
 Intro to Healthcare Occupations A/B (TP)  
 Math in Healthcare A/B (TP)  
 Medical Terminology 1A/1B  
 Nutrition in Health Care  
 Culinary Arts 1A/1B  
 ProStart 1A/1B & 2A/2B  
 Introduction to Engineering & Robotics A/B  
 Advanced Auto Technology (TP)  
 Basic Auto Technology  
 Small Engines 1A/1B (TP)  
 Work Based Learning 1  
 Work Based Learning 2  
 Work Experience for Credit  
 Advanced Algebra w/ Financial Applications S1/S2 (TP)  
 Computer Programming S1/S2 (TP)  
 Math for Trades & Technical Careers 1A/1B  
 Non-Fiction Writing

## West Valley High School

Autodesk Inventor 1A/1B (TP)  
 Digital Photography 1A/ 1B (TP)  
 Graphic Design & Multimedia (TP)  
 Graphic Design & Publishing (TP)  
 Independent Research - Arts, AV Tech  
 Video Production 1A/1B (TP)  
 Yearbook Publication 1A/1B  
 Computer Applications (TP)  
 Creative Coding / Adv Tech Study  
 Intro to Healthcare Occupations A (TP)  
 Math in Health Care (TP)  
 Medical Terminology 1A/1B (TP)  
 Culinary Arts 1A/1B  
 ProStart 1A  
 Engineering Design 1A/1B  
 Careers & Employability  
 Work Based Learning 1  
 Work Experience for Credit  
 Advanced Algebra w/ Financial Applications S1/S2 (TP)  
 Computer Programming S1/S2 (TP)  
 Math for the Trades & Technical Careers 1A/1B  
 Non-Fiction Writing

## Hutchison High School

Architectural Drafting 1A/1B (TP)  
 Building Trades 1A/1B, 2A/2B, 3A/3B, 4A/4B  
 CAD 1A/1B (TP)  
 Drafting 1A/1B (TP)  
 Tools of Technology and Trades  
 Welding 1A/1B, 2A/2B (TP)  
 Broadcast Journalism 1A/1B  
 Digital Photo 1A/1B (TP)  
 Graphic Design & Multimedia (TP)  
 Foundations of Arts A/V  
 Video Productions 1A/1B (TP)  
 Yearbook Publication 1A/1B  
 Intro to Exercise Science & Sports Medicine 1A/1B  
 Intro to Healthcare Occupations A/B (TP)  
 Medical Terminology 1A/1B (TP)  
 Math in Health Care (TP)  
 EMT 1A/1B (TP)  
 Emergency Trauma Technician (TP)  
 Medical Law and Ethics  
 Nutrition in Health Care  
 Professionalism in Health Care (TP)  
 Pharmacy Technician (TP)  
 Personal Relationships (TP)  
 Intro to IT 1A/1B  
 IT Essentials 1A/1B (TP)  
 Mobile Apps  
 Modern Electronics 1A/1B  
 Networking 1A/1B & 2A/2B (TP)  
 Advanced Auto Technology  
 Basic Auto Technology  
 Consumer Auto Maintenance  
 Small Engines 1A/1B, (TP) 2A/2B  
 Heavy Equipment Operations & Maintenance  
 Introduction to Collision Repair  
 Non-Structural Analysis & Damage Repair 1A/1B  
 Structural Analysis & Damage Repair 1A/1B  
 Plastics & Adhesives 1A/1B  
 Careers & Employability  
 Math for the Trades & Technical Careers 1A/1B  
 Independent Research:
 

- Architecture & Construction
- Arts, AV Tech, & Communications
- Information Technology
- Transportation, Distribution & Logistics

## Ben Eielson High School

Digital Photo 1A/1B (TP)  
 Yearbook Publication 1A/1B  
 Intro to Healthcare Occupations A/B (TP)  
 Medical Terminology 1A/1B (TP)  
 Professionalism in Health Care (TP)  
 Nutrition in Healthcare  
 Self-Reliant Living  
 Intro to IT 1A/1B  
 Work Based Learning 1  
 Work Based Learning 2  
 Work Experience for Credit  
 Non-Fiction Writing

## Lathrop High School

Building Trades 1A/1B  
 Digital Photo. 1A/1B (TP)  
 Graphic Design & Publishing (TP)  
 Video Productions 1A  
 Yearbook Publication 1A/1B  
 Accounting 1A  
 Intro to Healthcare Occupations A/B (TP)  
 Medical Terminology 1A/1B (TP)  
 Principles of Biomedical Sciences A/B  
 Aerospace Engineering 1A/1B  
 Digital Electronics 1A/1B  
 Engineering Design & Development A/B  
 Principles of Engineering 1A/1B  
 Introduction to Engineering & Robotics A/B  
 Introduction to Engineering Design 1A/1B  
 Careers & Employability  
 Work Based Learning 1  
 Work Based Learning 2  
 Work Experience for Credit  
 Advance Algebra w/ Financial Applications S1  
 Non-Fiction Writing

## School-to-Apprenticeship (STA)

The School to Apprenticeship (STA) program enables high school seniors to gain direct entry into a registered apprenticeship program. The STA program is sponsored by the Fairbanks North Star Borough School District (FNSBSD) and one of the following: Alaska Joint Electrical Apprenticeship & Training Trust (AJEATT), Fairbanks Area Carpenters, Fairbanks Alaska Area Plumbers & Pipefitters, or Ironworkers.

**Applications due in the Fall! See your counselor NOW to prepare or contact Heather Christian with the CTE Department at 907-452-2000 x 11538.**

## Introduction to the Trades

These after school courses, available to Seniors (Juniors with permission), offer career exploration opportunities for students interested in pursuing high skill, high wage, and high demand occupations:



### Building Trades

- NCCER, OSHA 10 Construction Worker Safety
- Scaffold User, Fall Protection, and Class 5 Warehouse Forklift Certification



### Electrical Trades

- Residential Wiring & Electrical Service
- Installation of Luminaries & Receptacle Switches



### Heavy Equipment Operations \*UNDER CONSTRUCTION\*

- This course is currently under development!
- Repair & Maintenance of Heavy Equipment



### Welding Academy

- Pipe Welding & Pipe Cutting
- Stick, Flux-Core, & TIG

**Courses provided with support of: Alaska Works Partnership, Fairbanks Pipeline Training Center, and four local trades organizations.**

### Districtwide CTE:

CTE e-Learning opportunities available via APEX

## Certified Nursing Assistant

Certified Nursing Assistant meets the educational requirements for certification of a CNA in the state of Alaska. Students mastering the competencies of this course should be well prepared to take and pass the examination of Nursing Assistant Certification. Six 8-hour days of clinical work and weekly skills labs are required.



**Prerequisites and Application Required! See your counselor NOW for more information or contact Heather Christian with the CTE Department 907-452-2000 x 11538.**





# Re-Envisioning Career and Technical Education (CTE): *Creating Future Ready Students*

*Re-Envisioning CTE* is a comprehensive review and planning process supporting the Fairbanks North Star Borough School District’s Strategic Plan. Career and Technical Education provides comprehensive technical training combined with relevant CTE experiences to increase student awareness of post-secondary options and prepare them for high skill, high wage careers.”

**Purpose:**

- Define the future of ‘Career Readiness’ and existing CTE programs as part of personalized learning for all students.
- Continue developing an educated, skilled workforce for economic vitality and individual student success.
- Create an educational environment that integrates core academics with real world relevance.
- Match the needs of business and industry with students who are prepared to excel in current and future employment opportunities.

**Outcomes:**

- Summary of current CTE facilities, programs and student outcomes in FNSBSD
- Current and future workforce needs assessment
- Comprehensive 5-Year plan for CTE districtwide
- Defined strategic direction for Hutchison, built by the community

**Process/Major Milestones:**

| Timeframe  | Planning Milestone  |
|------------|---|
| Aug 2017   | <b>Current Analysis:</b> Summary report of where we are now; current state of CTE in the FNSBSD   |
| Sep 2017   | <b>Communication Launch/Kick-Off Community Input Process:</b> Community-wide communication efforts to introduce the initiative and invite participation and input into the process. |
| Jan 2018   | <b>Comprehensive Needs Assessment:</b> Summary report compiling results from research, stakeholder surveys and community meetings.  |
| March 2018 | <b>Draft Plan:</b> CTE Model, Priorities & Recommendations  |
| May 2018   | <b>Final Plan:</b> 5 Year Plan for Re-Envisioning CTE in FNSBSD   |

# Re-Envisioning CTE: Process Overview

Updated as of 12/22/2017

|                             | <b>Phase 1:</b><br>Current State of CTE<br><i>July-Aug 2017</i>   | <b>Phase 2:</b><br>Community Launch<br><i>Sept-Oct 2017</i>  | <b>Phase 3:</b><br>Comprehensive Needs Assessment<br><i>Oct 2017-Jan 2018</i>  | <b>Phase 4:</b><br>CTE Model, Priorities & Recommendations<br><i>Feb-March 2018</i>  | <b>Phase 5:</b><br>Complete 5-Year Plan<br><i>April-May 2018</i>   |
|-----------------------------|---|--|--|--|--|
| <b>Process</b>              | <p><b>Data Gathering</b></p> <ul style="list-style-type: none"> <li>Gather 5-year historical data regarding district CTE programs</li> <li>Utilize Labor forecasts from AKDOL, USDOL, FNSB Quarterly, etc.</li> <li>Findings from the McDowell study, Alaska Work Force Investment Board (AWIB)</li> <li>Direction from the AK CTE Plan</li> <li>Information from the district's current Perkins required 5 year CTE plan.</li> </ul> | <p><b>Communication &amp; Rollout</b></p> <ul style="list-style-type: none"> <li>Teacher/Staff Prof Dev Day, 8/14</li> <li>Principals Meeting, 9/5</li> <li>North Pole City Council Meeting, 9/5</li> <li>Education and Workforce Development Chamber of Commerce, 9/6</li> <li>CTEAC Quarterly Meeting, 9/20</li> <li>Chamber Presentation; State of the Schools, 9/29</li> <li>Chamber Presentation; CTE Workforce Development, 10/10</li> <li>School Board Communications</li> <li>Rotary/Community Organizations</li> <li>Business &amp; Industry Groups</li> <li>Community Newspapers</li> <li>Weekly District Digest</li> <li>Quarterly Newsletters</li> </ul> | <p><b>Community Input</b></p> <ul style="list-style-type: none"> <li>Parent/Staff/Student Survey</li> <li>Employers Survey</li> <li>Key Industry Leader 1:1 Interviews</li> </ul> <p><b>Community Meeting #1 - Jan 18<sup>th</sup></b></p> <ul style="list-style-type: none"> <li>Brief out the data from community input</li> <li>Establish the current state of the district and community needs</li> <li>Identify successes, challenges, and opportunities for current and future CTE programs</li> </ul> | <p><b>Industry Specific Groups Feb 12<sup>th</sup> (Industry Specific Group Sessions)</b></p> <ul style="list-style-type: none"> <li>Agree on the strategic direction for CTE. Student outcomes, program structures, skills and certifications.</li> <li>What programs need to change? What should stay the same?</li> </ul> <p><b>Board Perspective March 5<sup>th</sup> (Board Work Session)</b></p> <ul style="list-style-type: none"> <li>Gather input and direction from the Board</li> </ul> <p><b>District Leadership Team March 5th (LT Session)</b></p> <ul style="list-style-type: none"> <li>Establish recommendations &amp; potential pathways for CTE district-wide</li> <li>Establish recommendations for Hutchison</li> </ul> | <p><b>Develop the Plan</b></p> <ul style="list-style-type: none"> <li>Development of plan for CTE inclusive of Hutchison</li> <li>Build the implementation plan supporting initiatives &amp; roadmap</li> <li>Review session with CTEAC Committee</li> <li>Presentation to the Board</li> <li>Community Brief</li> </ul> |
| <b>Outcome/Deliverables</b> | <ul style="list-style-type: none"> <li>Current state of CTE analysis</li> </ul>   | <ul style="list-style-type: none"> <li>Informed Stakeholder Groups</li> </ul>  | <ul style="list-style-type: none"> <li>Community CTE Needs Assessment Report</li> </ul>  | <ul style="list-style-type: none"> <li>Workgroup Session Notes/Recommendations</li> <li>District CTE Model</li> <li>Hutchison CTE Model</li> </ul>   | <ul style="list-style-type: none"> <li>5-Year Plan for CTE, Implementation Plan for Hutch, Board Presentation, Community Brief</li> </ul>  |

*\*Items in Blue Font indicate areas for Staff/Community participation and input. All community meetings are open invite.*

More information can be found on the CTE Landing Page: <https://www.k12northstar.org/cte>