

Career and Technical Education Advisory Council  
Fairbanks North Star Borough School District

Wednesday, September 20, 2017  
5:30 – 7:00 p.m.

520 Fifth Avenue  
School District Administrative Center  
Room 426, Fourth Floor

**AGENDA**

**A. PRELIMINARIES**

1. Call to Order
2. Roll Call / Introductions
3. Approval of Agenda
4. Approval of April 12, 2017 Minutes

**B. PUBLIC COMMENT ON NON-AGENDA ITEMS**

**C. REPORTS**

1. Budget and Staffing Update
2. FNSBSD CTE Course Overview 2017-2018

**D. OLD BUSINESS**

1. CTE Curriculum Adoptions: <https://www.k12northstar.org/Page/2871>
  - i. CTE Curriculum Adoption Schedules
2. FY18 Perkins Application

**E. NEW BUSINESS**

1. Update on 2017-2018 Strategic Plan
2. Comprehensive CTE OnStrategy Research Project:  
<https://www.k12northstar.org/cte>

**F. INFORMATION**

1. Personalized Learning
2. Federally Registered Apprenticeships

**G. CLOSING COMMENTS FROM COMMITTEE MEMBERS**

**H. ADJOURNMENT**

**Career and Technical Education Advisory Council**  
Fairbanks North Star Borough School District

Wednesday, April 12, 2017  
5:30 – 7:00 p.m.

520 Fifth Avenue  
School District Administrative Center  
Room 341, Third Floor

**MINUTES**

Daniel Domke-FNSBSD CTE Director

John Plutt-Plumbers and Pipefitters 375 Training  
Director

Heather Christian-FNSBSD CTE Program  
Secretary

April Scott-Curriculum Coordinator

Bruce Bell-BEHS Principal

Meagan Sheer-ACCESS Alaska Apprenticeship  
Coordinator

Vicki Domke-Business & Industry Aviation

Kristin Sloan-ACCESS Alaska Student  
Employment

Megan Geese-Student Representative

Keith Swarner-UAF/CTC Associate Dean  
Wendell Whistler-IBEW 1547 Training Director

Andrea Gelvin-Business & Industry Healthcare  
John Howe-Business & Industry  
Manufacturing/Arch and Construction

Dawn Murphy Business and Industry Hospitality  
and Tourism

**PRELIMINARIES**

CTE Director Daniel Domke called the meeting to order at 5:30 pm. Introductions made around the table, and the sign-in sheet passed.

The agenda approved as presented after a motion made by Dawn Murphy to approve the agenda. Seconded by Wendell Whistler. After a review of the February 8, 2017 minutes, a motion made by April Scott to approve the minutes, which was seconded by Dawn Murphy and Wendell Whistler. The minutes of February 8, 2017 were approved.

**PUBLIC COMMENT ON NON-AGENDA ITEMS**

1. None.

**INTRODUCTIONS**

1. Bruce Bell – Interim Principal Ben Eielson High School
2. Heather Christian – CTE Program Secretary
3. Daniel Domke – CTE Director
4. Vicki Domke – Business / Industry – Aviation – Tamarack Air / Everts Air Cargo
5. Megan Geese – Student Representative – North Pole High School (NPHS) and reports to Regional Student Council.
6. Andrea Gelvin – Business / Industry – Health Science
7. John Howe – Business / Industry – Manufacturing/Architecture / Construction
8. Dawn Murphy – Business / Industry – Hospitality / Tourism – Explore Fairbanks
9. April Scott – Curriculum Coordinator

10. John Plutt – Plumbers & Pipefitters Local 375 - Introduction to Trades class.
11. Keith Swarner – Associate Dean with University of Alaska Fairbanks Community and Technical College (UAF CTC). Tech Prep / Dual Credit process.
12. Dawn Murphy – Explore Fairbanks – Tourism Industry and workforce development.

## REPORTS

1. CTE Curriculum adoption process / status discussed. Course nomenclature discussed.
  - a. Architecture and Construction
  - b. Hospitality and Tourism
  - c. Introduction and Capstone Courses
    - i. Work-based Learning, Internships, and Pre-Apprenticeships discussed.
  - d. Health Science – Last week of May starts Health Science Curriculum Review

## OLD BUSINESS

1. PERKINS REALLOCATION – Initial and Reallocation discussed.
  - a. New welders purchased for the Welding Program with reallocation money.
2. Question about Perkins funding status
  - a. ESSA discussed in relation to Carl Perkins
  - b. Carl Perkins has not currently passed
3. State DEED CTE staff status
  - a. Curtis Clough replaced by Brad Billings
  - b. Brad Billings replaced by Deb Riddle
4. How far out can Perkins funding be used? Can it apply to a senior who has graduated from high school? AK State declared 9-12 for Perkins funding.
  - a. Must be SUPPLEMENTAL funding
  - b. Wendell – National Training where students can do their 1<sup>st</sup> year apprenticeship online but must have two weeks of intensive training just after graduation.

## NEW BUSINESS

1. FNSBSD CTE course offerings /Pathways/Programs of Study examined
  - a. STA/ INTRO TO TRADES discussed by John Plutt / Wendell Whistler
    - i. Must meet same requirements as adult apprentices
    - ii. Start right out of High School
      1. Twenty high school students have started IBEW STA – 13 are still in the program. Three students will be journeying out.
      2. Lessons learning
        - a. Educating students about what to expect
    - iii. Introduction to Trades essentially a 72 hour interview
      1. Shows up on time, ready to go
      2. Mentorship and coaching students to prepare for apprenticeship.
      3. Out of STA's only 1 is no longer an apprentice
      4. Equivalent of \$35-50,000 scholarship with \$19 wage.
2. New program for high school seniors through the Electrical Training Alliance where they will receive a certificate for 1<sup>st</sup> year of training followed by two week course after graduation. Only 4 years of school instead of five left.

3. Multiple Graduation Pathways discussed. Align with UAF/CTC occupational endorsements, certificates, and associate degrees.
  - i. CNA's discussed by Andrea Gelvin
    - a. Course prepares them to take the state certification
    - b. Provides for foundation in Health Care careers
    - c. Avenue for patient contact hours
  
4. CTE FIVE (5) YEAR STRATEGIC PLAN – complies with federal law
  - a. CTEAC oversight for CTE programs
  - b. Curriculum adoption and review process
  - c. Program of Study /completers as 4 semesters completed in one CTE program and graduation.
  - d. Multiple Delivery Strategies
  - e. Special Populations – Non-Traditional Occupations are areas all districts struggle with
  - f. Facilities/shops/joint use with state and UAF/CTC
  - g. Personnel-CTE teacher staffing cuts due to budget crisis
  - h. Funding-Drastic reductions in all areas, State CEF funding to end July 30, 2016. Perkins reductions due to multiple factors, district hard dollars declining due to Borough and State reductions.
  - i. Program alignment – Need to coordinate with student and business and industry needs to align programs of study
    - i. Health Care examples
    - ii. What is happening in business and industry?
      1. 8 high priority industries
    - iii. Student needs aligned with business and industry
      1. Business and industry survey-this is critical
    - iv. History of CTE discussed and direction of the future of CTE
    - v. Structure programs of study to facilitate NTO's and completers while meeting needs of local businesses through programs of study and employable skill sets
    - vi. Manufacturing classes / materials and basics, mechatronics
    - vii. Community survey discussed and initial planning completed
      1. Last conducted 20 years ago
    - viii. Curriculum and Materials review discussed. Business and Industry need to be at the table for curriculum review from the beginning of the process
  
2. HUTCHISON HIGH SCHOOL
 

Discussions on mission and needs of students.
  
4. PERKINS FY18 APPLICATION – Not yet available.

## **INFORMATION**

1. PERSONALIZED LEARNING
  - a. Process driven by business and industry along with students and parents to see where we end up
  - b. Foundation of personalized learning discussed
  - c. Online CTE opportunities discussed
    - i. 1-1 iPad initiative discussed
    - ii. Smartboard and technology resources use in the classroom
    - iii. Odysseyware discussed
    - iv. Students are ready for online opportunities

## **CLOSING COMMENTS FROM COMMITTEE MEMBERS**

Domke – Status of Fairbanks prospects and employment opportunities.  
LRDR (Long Range Discrimination Radar) discussed  
Construction budgets for Eielson AFB and Fort Wainwright discussed  
1,500 troops with ~3,000 family members: Housing and education discussed

STA Signing Ceremony - May 10, 2017 – 3-4:15 pm  
Intro to Trades Graduation – May 11, 2017 – 4pm at FPTC

Wendell Whistler – Principals, Assistant Principals, and Counselors requested to attend graduation  
Megan Geese – Thank you for your support of middle and high school students! Joining guard to pursue psychology degree at UAF.  
Bruce Bell – FPTC tour seconded by Union training representatives  
Wendell Whistler – Evening with the parents – Construction open house  
Domke – North Pole High School remodel discussed  
AKSIS AK – Disabilities / foster care with no parental support  
Foster care and emergency shelters  
John Howe – Mechatronics and applications to the real world. Application of math to the real world.  
Teach applied mathematics

**ADJOURNMENT at 7:12 PM.**

## CTE Curriculum Review Schedule

<b>CTE Career Cluster</b>	<b>Curriculum Review</b>
Architecture & Construction	2016-2017
Capstone & Other	2016-2017
Hospitality & Tourism	2016-2017
Science, Technology, Engineering & Mathematics	2018-2019
Business Management & Administration	2017-2018
Finance	2017-2018
Health Science	2017-2018
Transportation, Distribution, & Logistics	2017-2018
Arts, AV, Technology & Communication	2018-2019
Human Services	2019-2020
Information Technology	2018-2019
Middle School	TBD

**Perkins Course Review Every 5 years**

# 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.**

