Connecting CTE and Special Populations

Laurie Allyn - Cherry Creek Schools, CTE Specialist
Connie Cook - Cherry Creek Schools SPED, Transitions
Who are we?

Laurie Allyn - CTE Specialist, SPED CCIC

Connie Cook - (Transitions Moderate Needs) Work-Based Learning Program

Important relationships:

- Three Year Process
- SPED and CTE
  - Case Managers
    - Department Meetings
    - Tools
  - Transitions Services for moderate needs
    - Collaborative Meetings
    - Resource Sharing
  - Transitions Services for Severe Needs
    - Tools
    - Workshops in Pathways (emerging)
Collaboration:
- District SPED Transitions &
- Career and Technical Education Department

Purpose:
Create tools to better prepare students for:
- Careers
- Post-secondary education
- Placement at the Cherry Creek Innovation Campus (CCIC); CCSD’s newest Career and Technical Education Building/Program
INDICATORS OF CAREER AND COLLEGE SUCCESS
FOR STUDENTS WITH IEPs AND 504s

ACCOMMODATIONS
(for industry and post-secondary)
COPY OF NOTES
Professor, classmate, website
ALTERNATIVE TESTING
Extended time
Alternate setting
Reader
Alternate format, i.e., computer
ASSISTIVE TECHNOLOGY
Computer, tablets, live scribe pens, recording devices,
ALTERNATE FORMAT TEXTBOOK
scanned/electronic, enlarged print
Accommodations may vary slightly at different post-secondary settings.

ABILITY TO ACCESS RIGOROUS ACADEMICS

EXECUTIVE FUNCTIONING
PAYING ATTENTION – being able to ignore distractions and resist temptation (staying focused)
ORGANIZE – the steps needed to carry out the task
PLAN – how to address a task
INITIATING – beginning a task independently, problem solving strategies
REGULATE EMOTIONS – controlling emotional responses, balancing rational thought with feelings
SELF-MONITOR – ability to monitor individual performance and measure it against a standard of what is needed or expected
MEMORY – keeping and using information
FLEXIBILITY – being able to think about something in more than one way

SELF-DETERMINATION
CAREER SUCCESS
WHAT ARE MY NEEDS? WHO AM I?
WHAT ARE MY INTERESTS? WHAT ARE MY APTITUDES?

GAINFUL EMPLOYMENT

POST-SECONDARY WORKFORCE READINESS
PUNCTUALITY – being on time
CRITICAL THINKING – making reasoned judgements that are reasoned and well thought out
PROBLEM SOLVING – identifying and analyzing a problem, assessing the impact of solutions
INTERPERSONAL COMMUNICATION – exchanging information, feelings and meaning through verbal and non-verbal messages
FLEXIBLE – ability to move freely from one situation to another, adjusting to new situations, and responding appropriately in the situation
TEAMWORK – the combined action of a group of people that is efficient and effective
CUSTOMER SERVICE – the provision of service to customers before, during and after a purchase

ASSISTIVE TECHNOLOGY
LISTENING
AudioNote 2, Notability
MATH
EquatIO
ORGANIZATION/MEMORY
Evernote, iStudy, OneNote
READING AND WRITING
Read & Write (textHelp), BooksSure, Capti,
Dragon NaturallySpeaking,
JAWS Screen Reader,
Grammarly

Cherry Creek Schools
ALLYN/COOK 2017
Why

- Students, parents, and teachers do not understand the differences in K-12 and post-secondary accommodations
- Students may need to know assistive technology tools to access grade level curriculum
- Students need to understand what employers value in employees.
- Students need to develop postsecondary workforce readiness skills for the 2021 Graduation Requirements
- Teachers and case managers can initiate more meaningful career conversations.
- Students need to know the difference between accommodation vs. modification as it is related to industries and postsecondary education
Target audience:

- SPED case managers, students and their families.

Goal of the tool:

- Prepare students for accommodations they may receive in postsecondary education and their career.
- Create a visual to help guide conversations about these realities at IEP meetings
- Develop appropriate IEP Transition Goals

Resources:

LMI Gateway, College Resource Fairs, College Websites, 2021 Graduation Requirements, CTE PWR Standards, Cherry Creek School District Assistive Technology Team.
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SELF DETERMINATION
CAREER SUCCESS
WHAT ARE MY INTERESTS?
WHAT ARE MY APTITUDES?
WHAT ARE MY STRATEGIES?
WHAT ARE MY APTITUDES?

GAINFUL EMPLOYMENT

POST-SECONDARY WORKFORCE READINESS
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START IN THE MIDDLE AND MOVE OUT!
<table>
<thead>
<tr>
<th>POST SECONDARY ACCOMMODATIONS RESOURCES</th>
<th>ASSISTIVE TECHNOLOGY</th>
<th>EXECUTIVE FUNCTION/POST-SECONDARY WORKFORCE READINESS</th>
</tr>
</thead>
</table>
| Community College of Denver Accessibility Center  
https://www.ccd.edu/org/accessibility-center | Cherry Creek School District Assistive Technology  
http://www.cherrycreekschools.org/StudentAchievement/Pages/AssistiveTechnology.aspx | Arapahoe Douglas Workforce Center  
http://www.adworks.org/ |
| Community College of Aurora Disability and Equity Services  
https://www.ccaurora.edu/disability | Read & Write  
https://chrome.google.com/webstore/detail/readwrite-for-google-chrome/inoconmfaqibkmdafonkkfalgchipuhjhi-en-US | SWAP (School to Work Alliance Program)  
http://www.cherrycreekschools.org/StudentAchievement/AdaptivePrograms/Pages/SWAP.aspx |
| Metropolitan State University of Denver Access Center  
https://msudenver.edu/access | Capti  
https://www.captivoice.com/capti-site | Colorado Department of Labor and Employment  
http://www.cherrycreekschools.org/StudentAchievement/AdaptivePrograms/Pages/SWAP.aspx |
| College in Colorado Services for Students with Disabilities  
https://secure.collegeincolorado.org/College_Planning/Explore_Schools/Direct_to_College_Connections/Services_for_Students_with_Disabilities.aspx | Notability  
http://gingerlabs.com/ | Colorado Department of Labor and Employment  
https://www.colorado.gov/cdle |
|                                      | EquatIO  
https://www.careersincolorado.org/#/home |
|                                      | OneNote  
https://www.onenote.com/ |                                      |
|                                      | iStudiez  
http://istudentpro.com/ |                                      |
|                                      | Bookshare  
https://www.bookshare.org/cms/ |                                      |
|                                      | Dragon NaturallySpeaking  
https://www.nuance.com/dragon.html |                                      |
|                                      | JAWS Screen Reader  
http://www.freedomscientific.com/Products/Blindness/JAWS |                                      |
|                                      | AudioNote 2  
http://luminantsoftware.com/iphone/audio Note.html |                                      |
|                                      | Evernote  
https://evernote.com/ |                                      |
|                                      | Grammarly  
https://www.grammarly.com/ |                                      |
Characteristics of students prepared for success at the CCIC

Self-knowledge strengths, needs, aptitudes
- Student completed a career and/or aptitude experience indicating ability in chosen pathway (completion of pre-recipient course, competitive employment, career assessment etc.).

Strategies for lifelong learning
- Student completed prerequisite classes.
- Student attends classes every day.

Self determination
- Student meets deadlines.
- Student initiates tasks.
- Student completes his or her classroom work and homework independently.

Ability to access rigorous academics
- Student can access grade level curriculum (through assistive tech, accommodations, or other means).
- Student knows their accommodations/strategies and can advocate for himself or herself.

CCIC PATHWAYS

ADVANCED MANUFACTURING
- Suggested prerequisite: CAD, Computer Aided Drafting

BUSINESS SERVICES
- Suggested prerequisite: any Business elective

HOSPITALITY AND TOURISM
- Texts are college level and course is college rigor

HEALTH AND WELLNESS
- Suggested prerequisite: proficient understanding of grade level Biology

CONSTRUCTION TRADES
- No prerequisite required

IT
- Prerequisite: Intro to Computer Programming

STEAM
- Prerequisite: CAD

TRANSPORTATION
- Auto
  - Students need to be able to access technical reading and use manuals to solve problems.
- Aviation Mechanics
  - Intensive hours requirements mandated by FAA, High-school level reading and comprehension. Suggested prerequisite: Algebra 1, Auto 1
Why

- Easily accessible tool.
- Students will know skills, prerequisites, and prior knowledge for better placement at the CCIC building.
- Case managers and teachers will know skills to help develop their students for success at the CCIC building.
Tool:

Characteristics of students prepared for success at the CCIC

Target audience:

- SPED case managers, students and their families.

Goal of the tool:

- Evaluate appropriateness of student placement at the CCIC building through course prerequisites, executive functioning skills, and utilization of assistive technology.
- Help prepare younger students for the rigor of the Career and Technical Education at the new CCIC building.
- Develop transition goals for the IEP

Resources:

Teachers, Curriculum, SPED case managers, Indicators of Career and College Success Tool, Pickens Technical College
Characteristics of students prepared for success at the CCIC

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## Infrastructure Engineering

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<tr>
<th>Program</th>
<th>Prerequisite/Suggested Prerequisite</th>
<th>Description</th>
<th>Other considerations</th>
</tr>
</thead>
</table>
| **Construction 1** | Algebra 1                           | Students are going to learn safety (OSHA-10 construction). Students will work with industry tools, materials and processes for a residential build. Students will learn applicable construction math required to build a home (Algebra 1 and Geometry). | - Ability to work in harsh cold and hot conditions.  
- Algebra 1 skills  
- Enjoy working with tools, large machines.  
- Due to hazards in the shop (sharp objects, cutting tools, heavy equipment) students must demonstrate strong self and situational awareness  
- Ability to follow safety rules and regulate self behavior around these expectations. |
| **Construction 2** | Construction 1                      | Building tiny homes, modular home                                           | - See above                                                                            |
| **Construction 3** | Construction 2                      | Apprenticeship, internship, supervisory positions in Construction 1 and 2   | - See above                                                                            |

### Pathway certificate
- OSHA-10 Construction (Occupational Safety and Health Administration)  
- HBI PACT Home Builders Institute Pre Apprenticeship Training  
- NCCER National Center for Construction and Education Research

### Sample academic level
- **Reading:** Textbook or reading selections from assignments  
  - Electrical vocabulary

### Essential Functions:
- Infrastructure Engineering
- Case managers and families would have as much information about the courses as possible
- See examples of the technical reading and technical math requirements for each course
- Simplified overview for ease of understanding
- Other considerations are those things that you don't read in a course description but are important to that field. i.e. odor, dirtiness, noise level
- Essential function for physical, mental effort, performance requirements, and environmental factors
Target audience:

- SPED case managers, students and their families.

Goal of the tool:

- One stop shop for all courses at CCIC including requirements and other considerations for courses
- Way for case managers to talk about the realistic requirements in a particular CTE course
- Give case managers a resource to understand more in-depth the pathways and curriculum to help better support their students.
- Evaluate and investigate on more than student interest alone.

Resources:

- Pathway lead teachers
- Essential functions
If you want to create the CTE course overview tool in your district, be sure to include:

- Pathway
- Course name
- Prerequisite/ suggested prerequisite
- Simplified description
- Other considerations
- Samples of technical reading and math
- Essential functions
- Pathway certificates available
Questions?