Today’s Agenda

• Welcome and Introductions
  • General Introductions
  • Who is here Presenting?

• Ohio Attainment Goal of 2025

• Discussion on the “Lay of the Land” Ohio’s Current Career Pathways Discussion Influences and Future.

• The Pathways influence Ohio Articulation and Transfer Network

• ODE: Career Discussion
  • Pathway Models
  • Career Advising
  • NSYG
  • Early Awareness
Ohio Presenters: Curriculum Alignment and Assessment

Ohio’s Statewide Career Technical Credit Transfer Framework: Providing Statewide Options for Student Articulation in All National Career Clusters

Ohio has created a statewide system of transfer and articulation for secondary and adult career technical students. The system is supported by legislation, institutional stakeholders, cross-agency collaboration on standards and testing, and, most importantly, faculty. This session will share information on the structure of Ohio’s system, along with successes achieved and challenges encountered. Jamilah Tucker, Ohio Articulation and Transfer Network, Columbus, OH

Creating and Implementing Rigorous Assessments to Ensure Success for All Students

Join us as we share an Assessment Literacy Implementation Plan that supports the creation and use of rigorous assessment questions, activities, and projects aligned to the four Depth of Knowledge Levels as defined by the state’s career field technical content standards. Best practices, tools, and strategies will be shared. Christina Kerns, Penta Career Center, Perrysburg, OH; Kathy Wilson, Northwest Ohio Tech Prep & HSTW/MMGW, Toledo, OH; Kathleen Crates, University of Findlay, Findlay, OH
Ohio Presenters: Curriculum Alignment and Assessment Continued

Friday 10:30 to 11:15 Room 302/303 OCTAE Components 2,3,4,6,7,9 / DOLETA Elements 1,3,6 / PSA • CFA

Ohio College Tech Prep: Building High-Quality Career Pathways

Come learn what Ohio is doing to ensure high-quality career and technical education pathways are developed and used. Regional Tech Prep chief administrators and consultants will discuss the structure of Tech Prep in Ohio and share best practices, including exemplary programs of study, local and statewide college credit opportunities for students, and other regional and statewide best practices. Carrie Scheiderer, Central Ohio Technical College/Central Region Tech Prep, Newark, OH; Verda McCoy, Ohio Department of Education, Columbus, OH; Kathy Siebenaler Wilson, University of Toledo/Northwest Region Tech Prep Center, Toledo, OH; Terry Benedict, Cincinnati State Technical and Community College/ Southwest Region Tech Prep Center, Cincinnati, OH; Tom Kluding, North Central State College/Central Region Tech Prep, Mansfield, OH; Andrew Cox, Cuyahoga Community College/ Northeast Region Tech Prep, Cleveland, OH; Ken Bowald, Washington State Community College/Southeast Region Tech Prep, Marietta, OH; Kelly Herold, The University of Akron/East Central Region Tech Prep, Akron, OH

Friday 10:30 to 11:15 W Grand Ballroom 2 DOLETA Elements 2,3,5,6 / PS • CFAEW

From Implementation to Evaluation: Career Pathways at the College Level

Attendees will hear from college and university representatives and their consulting partners about implementation of Career Pathways in IT, manufacturing, and logistics. Panelists will share best practices in employer engagement and discuss alignment to industry-recognized credentials. Sara Hunt, Thomas P. Miller and Associates, Youngstown, OH; Daniel Clark, Ivy Tech Community College, Noblesville, IN; James Dolan, Vincennes University, Vincennes, IN; Jennifer Bellville, Laura Naughton, Thomas P. Miller and Associates, Indianapolis, IN
Ohio Presenters: Employer Engagement

Thursday 1:15- 2:00pm at the JW Grand Ballroom 3 OCTAE Components 2,5 / DOLETA Elements 3,4 / PSB • CFAEW

This Is Not Your Typical Career Fair How do you get juniors and seniors to make meaningful connections with local businesses?

Nearly 100 businesses spent time sharing their stories with more than 1400 students who selected career interests matched to local business professionals. The connections made led to continued mentorship, job shadowing opportunities, internships, and employment. Mary Riepenhoff, Kelli Tebbe, Auglaize Co. Educational Service Center, Wapakoneta, OH; Karen Rose, Shelly Vaughn, Mercer Co. Educational Service Center, Celina, OH; Tori Vaughn, Student, Fort Recovery, OH; Jared Ebbing, Mercer County Community Development, Celina, OH

Friday 10:30-11:15am at the White River G- OCTAE Components 2,5 / DOLETA Elements 1–5 / SB CFAE

Creating Career Enrichment Opportunities for Career Tech Students

This presentation will help schools and business partners identify and overcome pitfalls in creating career enrichment opportunities for high school students. Topics will include: obtaining partner buy-in, ensuring student readiness, and creating sustainable relationships for workforce development. Sarah Woodward, Carmen Gaines, Woodward Career Technical High School, Cincinnati Public Schools, Cincinnati, OH
Ohio Presenters: Employer Engagement Continued

Friday 8:15- 9:00 in White River B OCTAE Component 2 / DOLETA Elements 2,3,5 / PSB • CFAEW

Triangulate the Experience: Career Preparation, Completion, and Workforce Development

Attendees will learn how the presenters collaborated to implement a successful training program by partnering with community stakeholders, business leaders, and a newly implemented triangulated model. The framework supports the intent of Perkins (CTE), meets graduation requirements, and helps students hone their skills for the marketplace and postsecondary education. Mortenous Johnson, Kenneth Kreitzer, Dayton Public Schools, Dayton, OH; Joanne Viskup, Dayton Public Schools, Ponitz Career Technology Center, Dayton, OH

Thursday 1:15-2:00pm JW Grand Ballroom 1 OCTAE Components 1–10 / DOLETA Elements 1–6 / PSB • CAEW DOLETA

Youth CareerConnect: Models for the Future!

The Youth CareerConnect grant program is designed to encourage evidence-based high school models that will transform the high school experience for America’s youth. Youth CareerConnect schools will strengthen America’s talent pipeline through integrated academic and career-focused learning, work-based learning, exposure to the world of work, robust employer engagement, individualized career and academic counseling, and integration of postsecondary education and training. Moderator: Debbie Mills, CORD, Waco, TX. Panelists: Katherine Heinle, Amy Franco, Board of Education, Buffalo, NY; Bob Brundrett, Galveston Independent School District, Galveston, TX; Jan Bailey, Ivy Tech, Kokomo, IN; Kelley French, Jobs for the Future, Inc., Boston, MA; Clabe Slone, Kentucky Educational Development Corporation (KEDC), Ashland, KY; Erica Swinney, Manufacturing Renaissance, Chicago, IL; Katherine Reid, Putnam County Board of Education, Putnam, GA; Karla Spangler, Toledo Public Schools, Toledo, OH
Ohio Presentations: Industry

Thursday 2:15-3:00pm in Room 103 DOLETA Elements 1–6 / PSAB • CFAEW

Industry-Driven Workforce Solutions: Career Pathways in the Mahoning Valley

When manufacturers in the Mahoning Valley came together to address their critical talent shortage, they knew they had to collaborate not only with each other, but also with education and workforce development. Join us to hear from the staff and educators who created and implemented a system-wide career pathway. Jessica Borza, Mahoning Valley Manufacturers Coalition, Youngstown, OH; Ronald Iarussi, Mahoning County Career and Technical Center, Youngstown, OH

Thursday 2:15-3:00pm in Room 309/310 OCTAE Components 2,6,8 / DOLETA Element 3 / PS • FAEW

Modern Manufacturing Work Study (MMWS): Leveraging Partnerships to Meet Industry Needs

The presenters will provide an overview of the partnership involving Columbus State Community College, Honda, and Worthington Schools. Participants will learn the unique features of the MMWS model and will gain an understanding of how partners recruit students and industries to participate in the program. Attendees will gain insights from lessons learned. Dick Bickerstaff, Nichole Braun, Columbus State Community College, Columbus, OH; Scot McLemore, Honda North America, Inc., Marysville, OH
Innovative Wage Pathway Model: Low-Income Youth Advance via Wage Increase Focus

This presentation will include details about Ohio’s innovative wage pathway model pilot, which helps disadvantaged youth gain employment quickly to stabilize their financial situations before helping them move towards higher-paying jobs and career goals through training, credential attainment, and increased work experience. The initiative improves employment outcomes through in-demand job data analysis, wage increase incentives, sector- and skills-based approaches, comprehensive case management and assessment, financial stabilization priority, and ongoing outreach and engagement. Gerrie Cotter, Steve Cole, Ohio Department of Job and Family Services, Columbus, OH

Implementing a Meaningful, Dynamic, and Successful Career Advising Program

Give me people who will show up to work on time and pass a drug test! How do you answer this call from employers? We will review the community-based methods used to implement a dynamic and creative career advising strategy that was developed for over 15 school districts simultaneously. Jean Roberts, Tri-County Educational Service Center, Wooster, OH
Ohio needs to increase the percentage of working age Ohioans with a postsecondary certificate or degree to 65% by 2025. In order to reach this goal, Ohio needs to mobilize to raise educational attainment for in-demand, living wage occupations for citizens in every region, of every race and of every background.


For More Information:
https://www.ohiohighered.org/
https://education.ohio.gov/
Ohio – Lay of the Land

• History of Career Pathways Work and Future
• Combined State Plan
• WIOA
• Ohio Office of Workforce Transformation
ODHE: Articulation & Transfer

- **Ohio Mathematics Initiative** – Creating relevant, diverse math pathways for post-secondary students.
- **1 Year Option** – securing a path to an ATS degree for adult programs 900+ clock hours or above, with Chancellor Approved Credentials. (101.68)
- **Military Articulation** – looks at military occupations/designations and relates them to statewide articulated courses.
- **CTAGs (SCTAI)** – creates and inventory of more than 140 course-level, statewide articulation agreements for secondary and adult CTE students.
- **TAGs** – creates transfer among two and four year public institutions in pre-major courses/ *many CCP course my be TAG courses.
- **AP/CLEP/PLA** – recognize prior learning and exam achievement through awarded credit.
- **Ohio Transfer Module (Passport Initiative)** –transfer of general education core courses, from two year to four year institutions.
- **Credit When Its Due** – awards associate degrees to students who, while unaware, have completed them through transfer.
- **Remediation Free Standards** – uniform and statewide (3345.061)
- **Guided Pathways (2+2)** – creating and supporting complete transfer from two year to a four year degree, through guidance and course alignment.
Interactive Learning Modules

For Teachers and Administrators

- Expanding opportunities for students to earn college credit
- Verification forms
- Understanding CTAGs
- Advanced Placement options for CTE students
- Participation in College Credit Plus
- Getting your career-tech course approved

For Students and Families

- Understanding CTAG requirements and how to receive credit
- Advanced Placement options for CTE students
- Participation in College Credit Plus
- Benefits of CTAGs, AP, and CCP (and understanding the best options for you)
- Resources for college and career planning

https://www.ohiohighered.org/transfer/ct2/earning-college-credit
Every student prepared for successful transitions after high school
Career Connections Framework

Career Awareness
Kindergarten through Grade 5

Career Exploration
Grades 6 through 8

Career Planning
Grades 9 through 12 and beyond
Career Connections

Career Connections is a joint initiative among the Governor’s Office of Workforce Transformation, Ohio Board of Regents, OhioMeansJobs and Ohio Department of Education. Career Connections began in 2012 by providing a framework by which students develop a vision and realistic plan for their futures – during K-12 and beyond. Learning strategies are embedded into Ohio’s New Learning Standards for English language arts, math, science and social studies. Career Connections aligns the many efforts around college and career readiness to support students in becoming productive and engaged citizens.

Career Awareness
Elementary Grades (K-5)
Students become familiar with careers through learning that connects classroom instruction to future work. Career awareness strategies show students various types of careers and stimulate interest in future work.

Career Exploration
Middle Grades (6-8)
Students explore their career interests through embedded activities. Career exploration strategies are opportunities for students to discover work environments and understand the various aspects of the workplace. Strategies include tools and instruments that help students understand and appreciate their strengths and interests. Students start plans for their future with career information and postsecondary education data. Plans include course selection and planning as well as career aspirations and goals.

Career Planning
High School (9-12)
Students continue career exploration while focusing on career planning. Activities provide advanced experiences that offer hands-on opportunities in a workplace. Career planning strategies focus on making clear links between career options and educational decisions. Students develop the skills to revisit previous exploration and planning strategies as they face career changes throughout life.

Ohio | Department of Education
**Elementary Grades**

**Career Awareness** (e.g.: describe careers, identify career information, interpret connections between school and future work)
- Workplace visits with career interviews
- Career connection learning strategies
- Classroom career speakers
- Introduction to Ohio career fields and pathways

**Middle Grades**

**Career Exploration & Interests** (e.g.: identify interests, develop self-awareness, determine personal motivations related to work and income)
- Advanced academic and technical education
- Student Success Plan
- Career connections learning strategies
- Workplace visits with career interviews
- Career development courses
- Career mentorships
- Career research
- Service learning
- Career tech student organizations
- OhioMeansJobs K-12
- Career pathways

**High School**

**Career Planning, Decision-Making, & Transition** (e.g.: understand career interests, engage in career-based learning experiences, explore and identify education and training options beyond high school aligned with career interests, learn how to adjust career plans according to shifts in the economy and interests)
- Advanced academic and technical education
- Dual enrollment earning high school and college credits
- Career academies
- Career connections learning strategies
- Career pathways
- Career tech student organizations
- Employer-recognized certification and licensure
- Student Success Plan
- Internships
- Career mentorships
- Pre-apprenticeship programs
- Part-time work
- Service learning
- Work-based learning
- OhioMeansJobs K-12

**Lifelong Learning**

**Career Preparation and Fulfillment** (e.g.: pursue career interests, engage in career-based learning related to established goals, access and navigate resources that lead to continued growth and development, reflect on goals and adjust plans according to economic and interest changes)
- Advanced education and training programs
- Apprenticeships
- Career mentorships
- Cooperative education programs
- Economic viability
- Industry credentials
- Internships
- Professional development
- Reflective career evaluation and changes
- Service learning
- Successful work experiences
- OhioMeansJobs
Job seekers graduate with industry-recognized credentials that get them hired.
Health Science Career Pathway

Start Pre-Health
As early as grade 7 (based on readiness)

Dental Assistant
- Median Salary: $33,690
- Job Growth (10 yr): 20.5%
- Annual Openings: 416
- Average Tuition (1 yr): $0 – $3,900/yr

Dental Hygienist
- Median Salary: $65,510
- Job Growth (10 yr): 26.3%
- Annual Openings: 345
- Average Tuition (2 yrs): $3,900/yr
- Average Tuition (4 yrs): $9,600/yr

Dentist
- Median Salary: $158,460
- Job Growth (10 yr): 9.5%
- Annual Openings: 186
- Average Tuition (4 yrs): $35,000/yr

Workplace Visits
Job Shadow
Internship
Work

Supervised Experience
--- Work

Supervised Experience
Internship
--- Work

Internship
--- Work

Provided by middle schools, high schools, employers, Ohio Tech Centers, and colleges.

Preparing students for multiple options after high school:
gainful employment and/or postsecondary study.

Data reflects 2014 Ohio labor statistics and public institutions of higher education for 2013-2014. For specific tuition costs, visit ohiohighered.org.
## Health Science Career Pathway

### Secondary Pathway: **Allied Health and Nursing**

### Postsecondary Program: **Dental Hygiene**

### An Example of Courses with Secondary and Postsecondary Credits

<table>
<thead>
<tr>
<th>Secondary</th>
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<tbody>
<tr>
<td>7 8</td>
<td>English I</td>
<td>Algebra I</td>
<td>Physical Science</td>
<td>Social Studies</td>
<td>Fine Arts</td>
<td>Health Science &amp; Technology</td>
</tr>
<tr>
<td>9 10</td>
<td>English II</td>
<td>Geometry</td>
<td>Biology</td>
<td>World History</td>
<td>Health (.5) PE (.5)</td>
<td>Principles of Allied Health</td>
</tr>
<tr>
<td>11</td>
<td>English III</td>
<td>Algebra II</td>
<td>Chemistry</td>
<td>U.S. History</td>
<td>Dental Technology</td>
<td>Medical Terminology</td>
</tr>
<tr>
<td>12</td>
<td>English IV</td>
<td>Trigonometry/Calculus</td>
<td>Anatomy &amp; Physiology</td>
<td>U.S. Government</td>
<td>Dental Radiography</td>
<td>Oral Diagnosis &amp; Treatment Planning</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>Postsecondary</th>
<th>Year 1 1st Semester</th>
<th>College Seminar</th>
<th>Human Pathophysiology</th>
<th>Dental Anatomy &amp; Physiology</th>
<th>Dental Hygiene Pre-Clinic</th>
<th>Intro to Dental Hygiene</th>
<th>Periodontology I</th>
<th>Preventive Concepts</th>
<th>Techniques I</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1 2nd Semester</td>
<td>English</td>
<td>Intro to Microbiology</td>
<td>Techniques II</td>
<td>Clinic I</td>
<td>Oral Pathology</td>
<td>Periodontology II</td>
<td>Community Health Concepts</td>
<td>Dental Radiography</td>
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<tr>
<td>Year 2 1st Semester</td>
<td>Interpersonal Communication</td>
<td>Community Health</td>
<td>Techniques III</td>
<td>Clinic II</td>
<td>Sociology</td>
<td>Pharmacology</td>
<td>Dental Materials</td>
<td>Pain Management</td>
<td></td>
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<tr>
<td>Year 2 2nd Semester</td>
<td>Oral Communication</td>
<td>College Algebra</td>
<td>Techniques IV</td>
<td>Clinic III</td>
<td>Psychology</td>
<td>Dental Hygiene Case &amp; Concepts</td>
<td>Humanities Elective</td>
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### High School Career-Technical Education Program Courses

<table>
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<tr>
<th>High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses</th>
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<tbody>
<tr>
<td>Required Courses</td>
</tr>
<tr>
<td>Recommended Electives</td>
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</table>

Visit education.ohio.gov/CareerConnections for reference information.

Course titles and sequences will vary between schools.

11/2014
OhioMeansJobs K-12 Backpack

Welcome, Carolyn George

Career Cluster Inventory
TOP 5 RANKED CAREER CLUSTERS

- Finance: 10
- Information Technology: 10
- Construction Technologies: 9
- Government and Public Administration: 3
- Hospitality and Tourism: 8

Career Plans
2 OF 5 CAREER PLANS

- Dental Hygiene: 33% complete
  - Updated 7/24/2014
- Food Scientists and Technologists: 0% complete
  - Updated 7/24/2014

Assessments and Training
COMPLETED ASSESSMENTS

- ACT® English Practice Test: 1
  - Score: 126
  - Completion Date: 7/15/2014

For your Job Search
SAVED SEARCHES

- 1 of possible 10 searches

Calendar
UPCOMING EVENTS
- Submit online application 2/14
- Visit a workplace 3/2
- Submit Transcript 4/10

Visit the Events page or schedule deadlines for career activities in your own custom Career Plan.

Resumes
PUBLIC RESUME RATING

- 0 in the last 30 days

For your Job Search
SAVED SEARCHES

- 1 of possible 10 searches

Take the Guided Tour

Print

Edit your account
Reporting Tools

Students Registered

Graduation Years
- All

PRINT

Students Registered Pie Chart:
- Western: 6,937
- Southwest: 11,506
- Southeast: 9,635
- Northwest: 12,652
- Central: 13,767
- Northeast: 23,632

State Total: 78,129

Student Activity

Graduation Years
- All

Start Date:
- 06/03/2015

End Date:
- 09/01/2015

Group Names
- All Regions

PRINT

Student Activity Pie Chart:
- Active: 4,667 Students
- Non-Active: 53,924 Students
Reports Available
education.ohio.gov/CareerConnections
New Skills for Youth Grant

A $75 million, five-year global initiative from JP Morgan Chase & Co. and the Council of Chief State School Officers
• Expand options
• High standards for quality
• Align with workforce needs
Join the Conversation

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OhioEdDept
Q & A
Thank you!