Research shows that a consistent factor in the reason for students dropping out of high school is a lack of motivation due to the perceived irrelevance of school.
State Initiatives

Career Exploration Internship and Community Connectors: Funding to expand mentorship and internship programs for students

OhioMeansJobs K-12 Resources: Provide career decision-making materials and OhioMeansJobs K-12 information through school newsletters to parents

Career Advising Policy and Student Success Plans: Requirement for all districts, specifically targeting students who are at-risk of dropping out of school
Career Connections

Aligns district efforts to ensure consistent and ongoing opportunities for all students

Embeds curriculum strategies that help students link their learning to future careers

Engages students in opportunities to discover their career interests, explore pathways and make plans for their future
Background

Career Connections is a joint initiative among the Governor’s Office of Workforce Transformation, Ohio Board of Regents, and Ohio Department of Education.

Governor’s Office of Workforce Transformation
2014 Strategic Plan workforce.ohio.gov
Resources

Career Connections K-12 Framework

Career Connections Learning Strategies

OhioMeansJobs K-12
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.
career connections FRAMEWORK

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
District Career Advising Policy

Career advising for grades 6-12

Student Success Plans for those identified as at-risk of dropping out of school beginning in grade 6

Supports and interventions necessary to successfully transition to their postsecondary destination
Career Connections
Learning Strategies

Model Curriculum with embedded strategies aligned to Ohio’s New Learning Standards

Guide for Teachers with strategies to integrate in to local curriculum
A QUICK GUIDE TO career connections

Career Connection Learning Strategies help educators connect student learning to future work. Here are examples of how the model curriculum for Ohio's New Learning Standards incorporates strategies beginning in kindergarten through high school. To view the model curriculum in its entirety, visit:

http://education.ohio.gov/Topics/Academic-Content-Standards

Career Connections is a joint initiative among the Governor's Office of Workforce Transformation and Ohio Department of Education. In addition to the learning strategies embedded into the model curricula, Career Connections will align 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.
### Ohio’s New Learning Standards: K-12 Social Studies

#### Contemporary World Issues

<table>
<thead>
<tr>
<th>Theme</th>
<th>The dynamics of global interactions among nations and regions present issues that affect all humanity. These dynamics include competing beliefs and goals, methods of engagement, and conflict and cooperation. Contemporary issues have political, economic, social, historic and geographic components. Approaches to addressing global and regional issues reflect historical influences and multiple perspectives. Students can impact global issues through service learning and senior projects.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Topic</td>
<td>Civic Participation and Skills</td>
</tr>
<tr>
<td></td>
<td>Individuals and groups have the capacity to engage with others to impact global issues.</td>
</tr>
<tr>
<td>Content Statement</td>
<td>4. Individuals can assess how effective communicators address diverse audiences.</td>
</tr>
</tbody>
</table>

#### Content Elaborations

As individuals engage with others on global issues, they need to be able to communicate their beliefs and ideas with other individuals and with diverse groups.

Effective communicators, either individuals or groups, adapt communication styles to address diverse audiences by adjusting their use of communication tools, characteristics and conventions (see Content Statement 3).

Examples of communications could include examination of school-level and personal communications (e.g., memos, letters to families, texts, Web posts), as well as pieces from news programs, websites, advertisements or other media students may see in their daily life. For example, news clips may be used to illustrate how politicians use different body language when speaking to different audiences.

Opportunities should be provided for students to practice their own communication skills as they engage with others on global issues.

#### Instructional Strategies

Have students select a person in the public spotlight and assess how effectively the person communicates. How does this person adjust their communication style for diverse audiences? What tools, characteristics or conventions were most or least effective? Why are some people more dynamic than others when speaking?

Ask students, What does it take to be an effective communicator? Students can brainstorm practices that they expect to see in an effective communicator then look for those characteristics as they observe selected video clips.

#### Career Connection

Students will brainstorm practices that they expect to see in an effective communicator then look for those characteristics as they observe selected video clips (e.g., Ted Talks at [www.ted.com/talks](http://www.ted.com/talks)). After viewing videos of three dynamic speakers, students will reflect on how communications skills are essential across all types of jobs (e.g., hospitality, IT, health). Students will apply the information related to communication in their plan for education and training through high school and beyond.

#### Diverse Learners

Strategies for meeting the needs of all learners including gifted students, English Language Learners (ELL) and students with disabilities can be found at this site. Resources based on the Universal Design for Learning principles are available at [www.cast.org](http://www.cast.org).

#### Instructional Resources

- **Museum of the Moving Image**
  - [www.livingroomcandidate.org](http://www.livingroomcandidate.org)
  - *The Living Room Candidate* offers more than 300 commercials from every presidential election since 1952, as well as lesson plans and an interactive space for students to create their own commercials.
Preparing young people to succeed in the workplace requires partnering with local schools and engaging in career readiness conversations. Strengthen your partnerships by building Career Connections in your community using these examples.

**GRADES K-5**

Team up with your school district to host a career day or an evening event for the community to learn more about various businesses, organizations and jobs across the community.

Offer classroom presentations that show young people how the skills and knowledge they are learning now are applied throughout the workplace.

**GRADES 6-8**

Team up with teachers from your local schools to create an authentic project where students apply the skills and knowledge learned in the classroom to solving a real-work problem.

Partner with your local schools to coordinate a community service project that involves several businesses and organizations. Allow students to lead the planning and organizing for the project.

**GRADES 9-12**

Post job openings and internship opportunities for your company or organization on OhioMeansJobs.com.

Coordinate a long-term mentorship program that offers students enrichment opportunities such as work-ready skills, career exploration and college access.

Host a student intern to build work experience and promote community partnerships.
Career Pathways

Collective view on education and training, wage and outlook and related occupations within a career field or industry

Customized for each student and include multiple entrance and exit points
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.
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>
<th>Year 1</th>
<th>Year 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>English I</td>
<td>Algebra I</td>
<td>Physical Science</td>
</tr>
<tr>
<td>9 10</td>
<td>English II</td>
<td>Geometry</td>
</tr>
<tr>
<td>11</td>
<td>English III</td>
<td>Algebra II</td>
</tr>
<tr>
<td>12</td>
<td>English IV</td>
<td>Trigonometry/Calculus</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Postsecondary</th>
<th>Year 1</th>
<th>Year 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>College Seminar</td>
<td>Human Pathophysiology</td>
<td>Dental Anatomy &amp; Physiology</td>
</tr>
<tr>
<td>English</td>
<td>Intro to Microbiology</td>
<td>Techniques II</td>
</tr>
<tr>
<td>Interpersonal Communication</td>
<td>Community Health</td>
<td>Techniques III</td>
</tr>
<tr>
<td>Oral Communication</td>
<td>College Algebra</td>
<td>Techniques IV</td>
</tr>
</tbody>
</table>

### High School Career-Technical Education Program Courses

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

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

Course titles and sequences will vary between schools.
OhioMeansJobs.com Home Page

Click on me to see video to learn more about OhioMeansJobs

Search Jobs

Ohio Regional Articles | Workforce Professionals | OhioMeansInternships | Entrepreneurship
OhioMeansJobs.com: Choose K-12 Student

Individuals

OhioMeansJobs can help guide your career search if you tell us a little more about yourself.

Are you a:

- Veteran
- K-12 Student
- Individual with a Disability
- College Student

Search Jobs
GET STARTED

Ready to explore on your own
GET STARTED

Click on me to see video to learn more about OhioMeansJobs

Ohio Regional Articles | Workforce Professionals | OhioMeansInternships | Entrepreneurship
OhioMeansJobs K-12: Guided Tour “First Up”

First Up...

Welcome Middle and High School Students! Before beginning your career plan, we'll help you set up an account and a backpack so you can save your career interests, job searches, resume, future budget, and more.

Please follow all of the steps in this student guided tour prior to visiting your backpack:

- Register with OhioMeansJobs K-12
- Explore Your Career Interests
- Launch Your Career Plan
- Build Your Future Budget
- Your Tools for College and Career Readiness
- Build or Upload Your Resume
- Search for Job Options
- Review Your Backpack
Registration – customized for students, teachers, and parents

Create Account

Login Information
- Email Address:
- Re-enter Email Address:
- Password:
- Re-enter Password:
- Security Question: - SELECT -
- Security Answer:
- Re-enter Security Answer:

Basic Information
- Salutation: [Select]
- First Name:
- Middle Name:
- Last Name:
- Home Address
- City:
- State: Ohio
- Postal/ZIP Code:
- Primary Phone: [Home]
- Secondary Phone: [SELECT -]
- Are you a K-12 student?: Yes

I agree to OhioMeansJobs terms and conditions.
## Congratulations!

We've got your Career Cluster Inventory scores.

The chart below shows the results of your answers and how they match with 16 different career clusters. You can use this chart as a starting point to explore occupations that may be of most interest to you.

### CAREER CLUSTER INVENTORY - SCORES

<table>
<thead>
<tr>
<th>Career Cluster</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts and Communication</td>
<td>10</td>
</tr>
<tr>
<td>Business and Administrative Services</td>
<td>10</td>
</tr>
<tr>
<td>Engineering and Science Technologies</td>
<td>10</td>
</tr>
<tr>
<td>Education and Training</td>
<td>9</td>
</tr>
<tr>
<td>Transportation Systems</td>
<td>9</td>
</tr>
<tr>
<td>Construction Technologies</td>
<td>8</td>
</tr>
<tr>
<td>Government and Public Administration</td>
<td>8</td>
</tr>
</tbody>
</table>
Career Information

Dental Hygienists

Clean teeth and examine oral areas, head, and neck for signs of oral disease. May educate patients on oral hygiene, take and develop x-rays, or apply fluoride or sealants.

Related: Audio-Visual & Multimedia Collections Specialists, Cardiovascular Technologists & Technicians, Dental Assistants, Physical Therapist Aides, Radiation Therapists

Industries: Health & Counseling

Work Activities

- Clean calcareous deposits, accretions, and stains from teeth and beneath margins of gums, using dental instruments.
- Record and review patient medical histories.
- Examine gums, using probes, to locate periodontal recessed gums and signs of gum disease.
- Feel and visually examine gums for sores and signs of disease.
- Expose and develop x-ray film.
- Chart conditions of decay and disease for diagnosis and treatment by dentist.
- Maintain dental equipment and sharpen and sterilize dental instruments.
- Feel lymph nodes under patients chin to detect swelling or tenderness that could indicate presence of oral cancer.
- Provide clinical services or health education to improve and maintain the oral health of patients or the general public.
- Apply fluorides or other cavity preventing agents to arrest dental decay.
- Maintain patient recall system.
- Administer local anesthetic agents.
- Remove excess cement from coronal surfaces of teeth.
- Conduct dental health clinics for community groups to augment services of dentist.
- Place and remove rubber dams, matrices, and temporary restorations.
- Remove sutures and dressings.
- Make impressions for study casts.

Skills

Basic Skills

- talking to others
- listening to others, not interrupting, and asking good questions

Social

Pay

Average Salary

<Table>
<table>
<thead>
<tr>
<th>Pop</th>
<th>Average Salary</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;br&gt;</td>
<td>$96,690</td>
</tr>
<tr>
<td>&lt;br&gt;</td>
<td>$80,580</td>
</tr>
</tbody>
</table>
</Table>
Education and Training Options

Dental Hygienists

Clean teeth and examine oral areas, develop x-rays, or apply fluoride treatments to teeth.

Related: Audio-Visual & Multimedia Aux. Radiation Therapy

Industries: Health & Counseling

Skills

Basic Skills

Social

Abilities

Verbal

Hand and Finger Use

Attention

Ideas and Logic

Knowledge

Health

Education and Training Opportunities | OhioMeansJobs

EDUCATION AND TRAINING

The following are training programs applicable to this occupation. Interested in a school? Save a school to your Backpack for reference. You can save up to ten schools. To learn more, please contact each school individually.

Looking for alternative Training programs? Check out the CareerTech and Apprenticeship Programs.

Columbus State Community College
550 E SPRING ST, COLUMBUS, OH 43215

School Type: Public, 2 year
School Size: 20,000 and above
Admissions:

Other Degrees Offered: Undergraduate degree or certificate, offering No graduate offering

Website: www.cscc.edu

Program Name: Dental Hygiene/hygienist
Length: 2 years
Award Level: Associate's degree

Training: None

Education and Training Opportunities
Search for Scholarships

Over 1.5 Million Scholarships are available. Let us help find scholarships just for you, based on your goals.

- Intended Major: Accounting And Business/Management
- Home Zip Code: 
- Current GPA: On a scale of 0.01 - 4.00
- School Year: High School Senior
- College: 

**View Saved Scholarships**

Scholarships: 1 to 50 of 50     Page: 1 of 1     Page: [1]

<table>
<thead>
<tr>
<th>Scholarship</th>
<th>Deadline</th>
<th>Amount</th>
<th>Add to Backpack</th>
</tr>
</thead>
<tbody>
<tr>
<td>William and Betty Morrison Memorial Scholarship</td>
<td>April 01, 2015</td>
<td>Varies</td>
<td>Add to Backpack</td>
</tr>
<tr>
<td>Holmes County Education Foundation Scholarship</td>
<td>April 17, 2015</td>
<td>Varies</td>
<td>Add to Backpack</td>
</tr>
<tr>
<td>Cary Scholarship</td>
<td>April 17, 2015</td>
<td>$500</td>
<td>Add to Backpack</td>
</tr>
<tr>
<td>McNutt Scholarship</td>
<td>April 17, 2015</td>
<td>$500</td>
<td>Add to Backpack</td>
</tr>
</tbody>
</table>
Budgeting For Your Future

Below is what the average Ohio household spends on monthly expenses. Use it as a guide, but adjust as necessary to fit your specific lifestyle (e.g., if you are a student, if you live alone, etc.).

<table>
<thead>
<tr>
<th>Expense</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Housing</td>
<td>Lookup</td>
</tr>
<tr>
<td>Utilities</td>
<td>$311</td>
</tr>
<tr>
<td>Food</td>
<td>$538</td>
</tr>
<tr>
<td>Transportation</td>
<td>Lookup</td>
</tr>
<tr>
<td>Clothes</td>
<td>$145</td>
</tr>
<tr>
<td>Health Care</td>
<td>$276</td>
</tr>
<tr>
<td>Entertainment</td>
<td>$214</td>
</tr>
<tr>
<td>Personal Care</td>
<td>$53</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>$85</td>
</tr>
</tbody>
</table>

*Housing and rental costs come from Zillow and the U.S. Department of Housing and Urban Development, respectively. All other costs come from the Bureau of Labor Statistic’s Consumer Expenditure Survey.*

Your Target Salary:

- $21,887 (Gross Annual Target Salary)
- $19,032 (Net Annual Target Salary)
- $9 (Target Hourly Rate)

This is the annual salary you need to earn to maintain your current or expected lifestyle. Click Go to Backpack to return to your Backpack and complete your Individual Employment Plan. Not what you expected? Edit your monthly expenses.
Career Plan

Dental Hygiene
33% complete

Activity | Note | Status | Edit | Delete
--- | --- | --- | --- | ---
Determine your skill levels. | | Not Complete | | |

Add Recommended Activities

Recommended Activities
Select an activity from the suggested list below to add it to your to-do list.

- Take the Career Cluster Inventory
  See how your interests match up to potential careers by answering some questions about yourself.

- Research Occupations
  Know your stuff! Watch videos about careers and learn about job responsibilities, education needed, salaries, and more by doing an occupation search.

- Complete the Career Profile
  Get a more detailed look at your career interests by answering questions in the Career Profile.

- Attend a college or career fair near you
  Check with your school counselor about events going on in your area.
Tools for College and Career Readiness

ACT® Preparation

Use our practice tests and interactive course to get great scores on your ACT®. Open one of the resources below or click here to get started.

- ACT® English Practice Test 1
  This 75-question ACT English practice test lets you practice with the grammar and mechanics skills you'll need to do well on test day. Use the instant scoring and detailed answer explanations to determine where you're strong and what can be improved.

- ACT® English Practice Test 2
  This 75-question ACT English practice test lets you practice with the grammar and mechanics skills you'll need to do well on test day. Use the instant scoring and detailed answer explanations to determine where you're strong and what can be improved.

- ACT® English Practice Test 3
  This 75-question ACT English practice test lets you practice with the grammar and mechanics skills you'll need to do well on test day. Use the instant scoring and detailed answer explanations to determine where you're strong and what can be improved.

- ACT® English Practice Test 4
  This 75-question ACT English practice test lets you practice with the grammar and mechanics skills you'll need to do well on test day. Use the instant scoring and detailed answer explanations to determine where you're strong and what can be improved.
Upload or Build a Résumé

Create a Resume

We'll help you create a resume that will get you noticed by employers. Complete this step and you'll be on your way!

You can include additional work experience and other career-related info once you complete your basic resume.

* Required information

**Resume Basics**

- **Resume Title**: (e.g., Senior Marketing Director, Experienced Sales Manager)

- **Resume Status**: Which should I choose?
  - Public: I want employers to find my resume
  - Private: I don't want employers to find my resume

**Work Experience**

Please enter your most recent work experience.

Note: You can add more work experiences on the next page.

- I don’t have any work experience

  - **Company Name**: 
  - **City**: 
  - **State**: 
  - **Country**: USA
  - **Job Title**: 
  - **Company Industry**: 
  - **Start Date**: September 2014
  - **End Date**: Present

Describe this work experience:

- **Character Count**: 0 (3,000 character limit)

How did you find this job? 

LAUNCH CAREER PROFILE
Welcome, Carolyn George

Career Cluster Inventory
TOP 5 RANKED CAREER CLUSTERS

- Finance: 10
- Information Technology: 10
- Construction Technologies: 9
- Government and Public Administration: 5
- Hospitality and Tourism: 8

Career Plans
2 OF 5 CAREER PLANS

- Dental Hygiene: 33% complete
- Food Scientists and Technologists: 0% complete

Assessments and Training

- ACT English Practice Test: 1 - Score: 138, Completion Date: 7/15/2014

For your Job Search

- Saved Searches: 1 of possible 10 searches
Self-Directed Exploration
Next Steps:

Map what your school is already doing (who, what, when, where, how)

Identify champions at your school that will expand and enhance current efforts (administrators, colleagues, and community members)

Strategize what small steps your school will take initially, that will make a big impact overtime
education.ohio.gov/CareerConnections
Social Media

- **facebook**: Ohio Families and Education
  Ohio Teachers’ Homeroom

- **LinkedIn**: ohio-department-of-education

- **Storify**: storify.com/ohioEdDept

- **Twitter**: @OHEducation

- **YouTube**: OhioEdDept
Questions?

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Carolyn.George@education.ohio.gov  |  614-995-5042

Tisha McGlaughlin
Tisha.McGlaughlin@education.ohio.gov  |  614-466-5756

Career Connections
Office of Career-Technical Education
25 S. Front Street, Columbus, Ohio 43215  |  800-700-6247