

The 16 CAREER CLUSTERS

A Career Cluster is a grouping of occupations and broad industries based on commonalities



The slides will give you an understanding of each Career Cluster.

Agriculture, Food & Natural Resources

The production, processing, marketing, distribution, financing and development of agricultural products and resources including food, fiber, wood products, natural resources, farm and animal products.



INTERESTS

Enjoy working outdoors and be physically active
Enjoy Nature, taking care of pets, identifying environmental hazards and caring deeply about protecting the environment

CAREERS

- Agricultural Science Teachers
- Veterinarians
- Forest Fire Fighter
- Biochemists and Biophysicists
- Food Inspectors and Scientists
- Cartographers
- Game Warden and Animal Breeders
- Farm workers and laborers, farms and animals
- Nursery and greenhouse workers

SUGGESTED HIGH SCHOOL COURSES

Earth Science, Biology, Chemistry, Agricultural Courses, CAD, Natural Resources, Floral Design, Statistics, Discrete Math, Greenhouse Mgt.

[Floral Design](#)

Architecture & Construction

Careers in designing, planning, managing, building and maintaining the construction industry.



INTERESTS

- Enjoy working with their hands, using tools
- Have an aptitude for math and science
- Like solving or analyzing problems
- Building homes or other structures
- Building bridges and roadways

CAREERS

Architect
Brickmason or Cement Mason
Electrician or Plumber
Carpenter
Structural Steel Workers
Construction Inspector
Elevator Installer/Repairer
Roofer

SUGGESTED HIGH SCHOOL COURSES

Algebra, Geometry, Construction, Science, Construction Materials, CAD, Computer Courses, Mechanical Drawing, Electricity and Electronics, Blueprint reading, Business Management

CommunicationsArts, A/V Tech &

Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing art and journalism and entertainment services



[Information Technology Academy – Support & Services Two-Year Program at Mahoning County Career & Technical Center](#)

[Interactive Multimedia Academy Two-Year Program at Mahoning County Career & Technical Center](#)

INTERESTS

- Drawing pictures or cartoons to amuse people
- Performing music, drama and or dance
- Creating an original video or film
- Sketching or painting pictures
- Taking photographs
- Making jewelry, sculpture or ceramics
- Designing a newspaper layout

CAREERS

Graphic Artist

Art , Theatre or Music Teacher

Newspaper Reporter

Photojournalist

Author or Writer or Director

Musician

SUGGESTED HIGH SCHOOL COURSES

Art, Graphic Art, Humanities, Journalism

English, Photography, Communications, Music, Political Science, Photography

Business, Management & Administration

Planning, organizing, directing and evaluating business functions essential to efficient and productive business operations. These opportunities are available in every sector of the economy.



INTERESTS

- Running your own business
- Developing web pages
- Preparing reports
- Analyzing data
- Being a club officer
- Organizing a school event or fund-raiser
- Managing tasks for a group

CAREERS

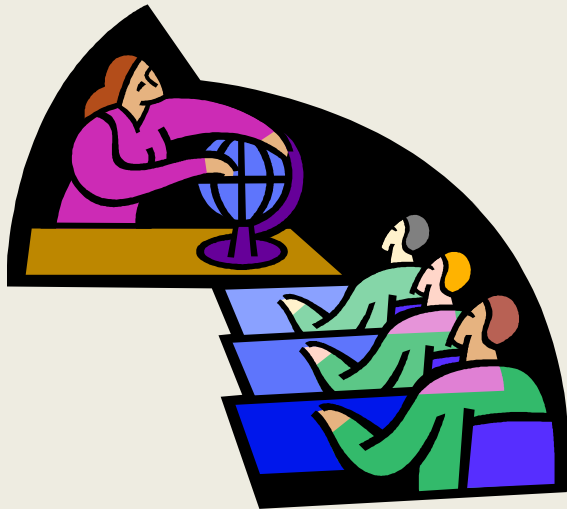
Accountant or CPA
Financial Manager
Company Executive (CEO, CFO)
Office Manager
Public Relations Specialist
Management Analyst
Billing Clerk

SUGGESTED HIGH SCHOOL COURSES

Economics, Business, Accounting, Math,
English, Keyboarding, Computers, Marketing ,
Sports Management, International Relations, Desktop and
Multimedia

EDUCATION & TRAINING

Planning, managing and providing education and training services, and related learning support services.



INTERESTS

- Tutoring or babysitting young children
- Creating lesson plans
- Attending a summer camp
- Help others draw, write or read
- Create crafts, art or bulletin boards
- Play games with spelling, reading or math
- Coaching sports

CAREERS

School Counselor or School Psychologist
Teacher or Teacher's Aide
College Advisor
Day Care Center Director
Librarian
Vice Principal or Principal

SUGGESTED HIGH SCHOOL COURSES

English, Math, Science, History, Teacher Cadet, Sociology,
Psychology, Human Development
Marriage and Family, Early Childhood Ed.
Education courses

[Early Childhood Education](#)

FINANCE

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Planning, service for financial and investment planning, banking, insurance and business financial management.



INTERESTS

- Investing money
- Developing a budget
- Using spreadsheets and financial computer programs
- Balancing a checkbook
- Being a treasurer of a club
- Organizing a fund-raiser
- Planning a mock stock market game
- Studying investments and the stock market

CAREERS

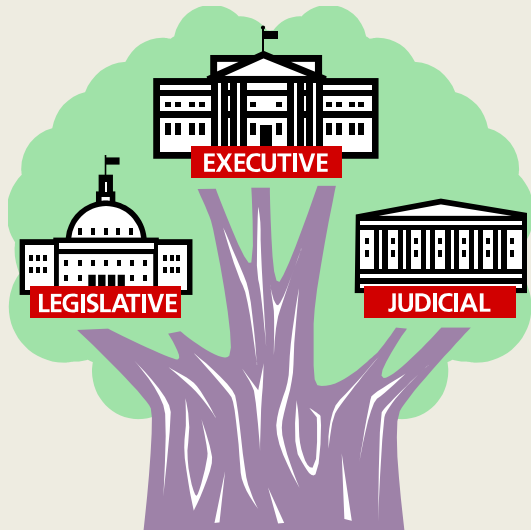
Actuary
Appraiser
Financial Institution Manager (Banker)
Loan Officer (Mortgage or others)
Securities Trader
Tax Preparer or Auditor
Claim Examiner or Adjuster

SUGGESTED HIGH SCHOOL COURSES

Business Math, Computers, Keyboarding, Statistics
Economics, Business Law, Algebra, Accounting, English,
Marketing, Record Keeping and Data Processing

GOVERNMENT & PUBLIC ADM.

Executing governmental functions to include Governance; National Security, Foreign Service, Planning; Revenue and Taxation; Regulation; and Management and Administration at the local, state and federal levels.



INTERESTS

- Participating in a debate or on a debate team
- Researching and writing grants
- Learning and speaking a foreign language
- Making speeches
- Running for class or club office
- Volunteering as a legislative aide
- Volunteering for school board/town board position
- Campaigning for political candidates

CAREERS

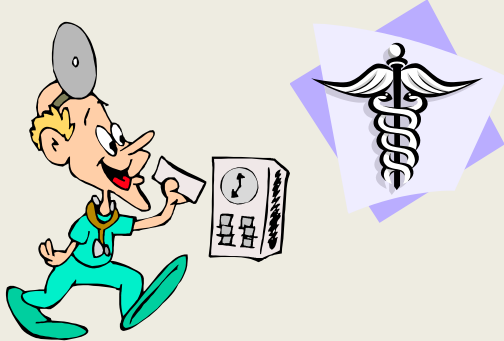
Government Investigator (FBI, CIA, DIA)
Public Works Director
City or Town Manager
Congressional Aide
Legislative Assistant
State Department Official

SUGGESTED HIGH SCHOOL COURSES

Accounting, Business Law, Economics, Government
Business Management, History, Foreign
Languages, Humanities, Sociology,
Law, English, Statistics

HEALTH SCIENCE

Planning, managing, and providing therapeutic services , diagnostic services, health informatics, support services and biotechnology research and development.



[Health Tech Prep Program at Mahoning County Career & Technical Center](#)

[Exercise Science](#)

[Medical Occupation Two-Year Program at Mahoning County Career & Technical Center](#)

INTERESTS

- Learn first aid or CPR
- Volunteer at a retirement home
- Learn how the body/mind work
- Watch medical shows on TV
- Be a team manager on a school athletic team
- Volunteer at a rescue squad

CAREERS

Dietician

Athletic Trainer

Pharmacist

Physician Assistant, Nurse, Radiologic Tech

Music or Art Therapist

Dentist or Physician or Surgeon

Recreational, Occupational Therapists

Physical Therapist

Dental Lab Technician

SUGGESTED HIGH SCHOOL COURSES

Biology, Anatomy, English, Math, First Aid,
Chemistry, Psychology, Health and PE, Music and Art

Hospitality and Tourism

Management, marketing and operations of restaurants and other food services, lodging, attractions, recreation events and travel related services.



INTERESTS

- Planning vacations or school trips
- Cooking and baking
- Participating in sports
- Exercising and working out
- Planning school functions
- Recreational activities
- Being a lifeguard
- Reading about other countries and cultures

CAREERS

Recreational Leader
Camp Counselor
Travel Agent
Hospitality Manager
Hotel Manager
Chef/Baker/Server/Cook
Tour Director

SUGGESTED HIGH SCHOOL COURSES

English, Foreign Languages, Geography, History,
Child Care Studies, Physical education, Health,
Sociology and Psychology

[Culinary Arts](#)

HR-HUMAN SERVICES

Preparing individuals for employment in career pathways that relate to families and human needs.



INTERESTS

- Listening and helping friends with problems
- Working with the elderly
- shopping and comparing prices
- Volunteering
- Delivering food and clothes to people in need
- Serving home at a homeless shelter
- Working with the elderly
- making family menus

CAREERS

Child care worker

Recreational Worker

Rehabilitation or Substance Abuse Director

Deaf Interpreter Associate

Nutrition counselor

Funeral Director or Clergy

SUGGESTED HIGH SCHOOL COURSES

Child Care, Home Economics, Sociology, psychology,
Foreign Languages, English/Lit., History, Computer
Literacy, Nursing, Early Child Ed., Human Development,
Family Living

IT Information Technology

Design, development, support and management of hardware, software, multimedia and systems integration services



INTERESTS

- Play video games
- Assemble computer parts or repair systems
- Write software programs
- Develop web pages
- Surf the internet
- Analyzing data or information
- Documenting and recording information
- Learn or install software programs

CAREERS

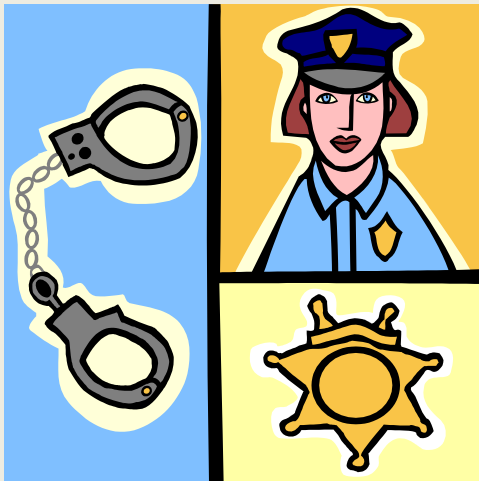
Computer System Engineers, Analysts or Architects
Database Administrators
Network Systems Analysts
Web Administrators
Business Intelligence Analysts
Computer Security Specialists

SUGGESTED HIGH SCHOOL COURSES

Advanced Math courses, Keyboarding, Computers
Information Systems, Computer New work
Administrator, IT Engineering, Applied technology,
Web Design, Law and Ethics

LAW PUBLIC SAFETY, AND SECURITY

Planning, managing and providing legal, public safety, protective services and homeland security, including professional and technical support.



[Public Safety](#)

INTERESTS

- Reading mystery novels or watching mystery movies
- Following court cases in the news
- Listening to a police scanner
- Volunteering to search for missing pets or children
- Participating in a search and/or rescue training
- Volunteering for the local fire department

CAREERS

Attorney or District Attorney

Corrections Officer

Court Reporter or Clerk

Police Officer or Detective

Polygraph Examiner

Fire Fighter or Inspector

Forensic Artist

Paralegal

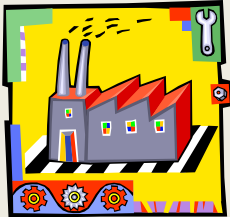
Probation and Parole Officer

SUGGESTED HIGH SCHOOL COURSES

Law, Government, EMT, History, Psychology, Sociology,
Data Processing, Computer Literacy, Health & PE
First Aid, Math, Office Administration

MANUFACTURING

Planning, managing and performing the procession of materials in into intermediate or final products and related professional and technical support activities as production planning and the control, maintenance and engineering of products.



[Engineering Tech Prep Program at Mahoning County Career & Technical Center](#)

[Welding and Fabrication Program at Mahoning County Career & Technical Center](#)

INTERESTS

- Sewing, weaving, knitting or other projects
- Building things such as wood projects
- Taking machine shop classes
- Repairing machinery
- Stalling and repairing home stereo equipment
- Working with leather goods
- Operating a printing press

CAREERS

Machine Operator
Welder
Cabinetmaker or Furniture maker
Textile Inspector, Tester
Health and Safety Specialist
Industrial Psychologist
Operations Research Analyst
Laborer

SUGGESTED HIGH SCHOOL COURSES

Math, Industrial Arts, Shop Mechanics
Mechanical Drawing, Geometry, Chemistry Business
Management, Computer Concepts
Electricity and Electronics, Blueprint Reading,

Marketing, Sales & Service

Planning, managing and performing marketing activities to reach organization objectives.



INTERESTS

- Give people advise on products they buy
- Sell products for fundraisers
- Take tours of houses for sale
- Design and model clothes
- Decorate homes or rearrange furniture
- Likes working with numbers
- Enjoys shopping
- Setting up a fashion show

CAREERS

Real Estate Agent or manager

Real Estate Appraiser

Fashion or Floral Designer

Retail Store Manager or Clerk

Customer Service Representative

Sales manager

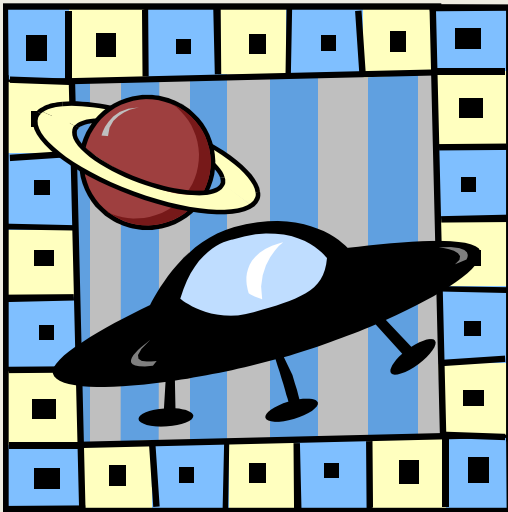
Fashion Model

SUGGESTED HIGH SCHOOL COURSES

Intro to Business, Marketing, Art, Retail Sales,
Business Math, Accounting, Keyboarding,
Computer Literacy, Art , Office Education, General
Merchandizing, English

SCIENCE TECHNOLOGY, ENGINEERING & MATH

Planning, managing, and providing scientific research and professional and technical services including (e.g. physical science, social science, engineering) laboratory and testing services and research and development services,



INTERESTS

- Collecting rocks or fossils
- Identifying plants and animals
- Conducting science experiments
- Watching the weather
- Designing and test vehicles or planes
- Developing new products or machinery
- Stargazing
- Designing experiments

CAREERS

Anthropologist

Physicist

Environmental Scientist

Engineer (nuclear, industrial, Chemical ,
Civil, Petroleum)

Aerospace Engineer

Computer Hardware Engineer

SUGGESTED HIGH SCHOOL COURSES

Earth Science, Biology, Chemistry, Physics, Anatomy

Advanced math, Advanced Science, Computer

Technology, English, Drafting, Statistics

Transportation, Distribution & Logistics

Planning, management and movement of people, materials and goods by road, pipeline, rail, air, and water and related services such as transportation, infrastructure planning and management, logistics services, mobile equipment and facility maintenance.



[Collision Repair Technology Two-Year Program at Mahoning County Career & Technical Center](#)

[Truck & Diesel Mechanics Two-Year Program at Mahoning County Career & Technical Center](#)

[Automotive Technology](#)

INTERESTS

- Playing with automobiles or trains
- Loves flying
- Loves boating
- Interested in knowing how machines work
- Interested in fixing all types of machines
- Interested in the distribution of goods

CAREERS

Commercial Pilots
Traffic Technicians
Transportation Specialist
Aerospace technicians
Air Cargo Handlers
Bus and Auto Mechanics
Motorboat Mechanics
Electrical Equipment Installers

SUGGESTED HIGH SCHOOL COURSES

Math and Science Electricity and Electronics,
Transportation and Distribution Courses, Logistics,
Diesel Technology

1. Type in www.bls.gov/ooh and click enter.

You should see this:

The screenshot shows the Occupational Outlook Handbook website. At the top, there is a navigation bar with links: OOH HOME, OCCUPATION FINDER, OOH FAQ, OOH GLOSSARY, A-Z INDEX, OOH SITE MAP, and EN ESPAÑOL. Below this is the main header "OCCUPATIONAL OUTLOOK HANDBOOK" and a search bar labeled "Search Handbook" with a "Go" button. A blue arrow labeled "2" points to the search bar. Below the header, there is a "Home" section with a brief description of the OOH. To the left, there is a sidebar titled "OCCUPATION GROUPS" with a list of categories. A blue arrow labeled "1" points to this list. To the right of the sidebar, there is a "SELECT OCCUPATIONS BY" section with dropdown menus for "2016 Median Pay", "Entry-Level Education", "On-the-job Training", "Number of New Jobs (Projected)", and "Growth Rate (Projected)", along with a "GO" button. Below this is a "FEATURED OCCUPATION" section featuring "Financial Analysts" with a description and a "view profile »" link. At the bottom, there is an "A-Z INDEX" section with a list of letters from A to Z. A blue arrow labeled "3" points to this list. Below the A-Z index is a "BROWSE OCCUPATIONS" section.

1. From here you have a couple of options. You can click on any of the occupations groups to the left.
2. You can type the name of the occupation in the “search handbook” box.
3. You can click on the first letter of the occupation and it will take you to a list of occupations that start with that letter.

UNITED STATES DEPARTMENT OF LABOR

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OOH HOME | OCCUPATION FINDER | OOH FAQ | OOH GLOSSARY | A-Z INDEX | OOH SITE MAP | EN ESPAÑOL

Search Handbook

Go

Occupational Outlook Handbook > Protective Service >

Police and Detectives

EN ESPAÑOL

PRINTER-FRIENDLY

Summary

What They Do

Work Environment

How to Become One

Pay

Job Outlook

State & Area Data

Similar Occupations

More Info

Summary

Quick Facts: Police and Detectives	
2016 Median Pay	\$61,600 per year \$29.62 per hour
Typical Entry-Level Education	See How to Become One
Work Experience in a Related Occupation	See How to Become One
On-the-job Training	Moderate-term on-the-job training
Number of Jobs, 2016	807,000
Job Outlook, 2016-26	7% (As fast as average)
Employment Change, 2016-26	53,400

What Police and Detectives Do

Police officers protect lives and property. Detectives and criminal investigators, who are sometimes called *agents* or *special agents*, gather facts and collect evidence of possible crimes.

Work Environment

Police and detective work can be physically demanding, stressful, and dangerous. Police officers have one of the highest rates of injuries and illnesses of all occupations. Working around the clock in shifts is common.

Once you choose an occupation you can use the tabs to search for answers to your questions.

Name _____

Career Research

Name of Occupation _____

Career Cluster the occupation is from _____

What does a person in this occupation do?

What kind of training does a person in this occupation need?

How much money can a person in this occupation make?

What is the Job Outlook for this occupation? _____

Will there be a job out there when you graduate? _____

Is this an occupation you would be interested in? _____