

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
Food Inspectors and Scientists
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.

<https://mahoningctc.com/animal/-/pre-veterinary-science-program>

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

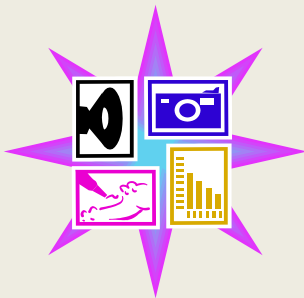
Algebra, Geometry, Construction, Science, Construction
Materials, CAD, Computer Courses, Mechanical
Drawing, Electricity and Electronics, Blueprint reading,
Business Management

<https://mahoningctc.com/construction-and-remodeling-program>

<https://mahoningctc.com/electricity-program>

Communications, Arts, A/V Tech &

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



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

<https://mahoningctc.com/creative-arts-and-design-program/>

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

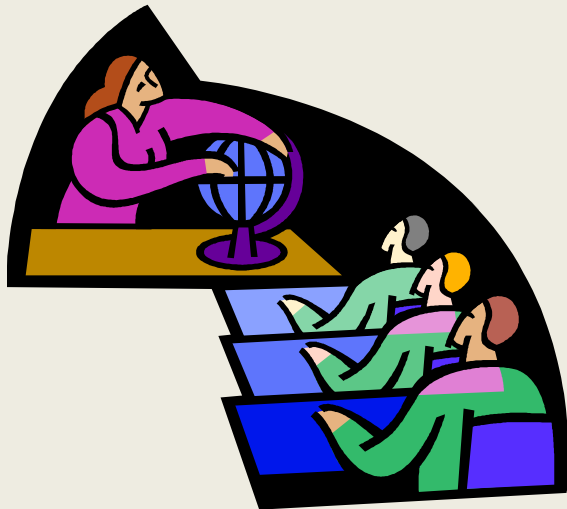
- Accountant or CPA
- Financial Manager
- Company Executive (CEO, CFO)
- Office Manager
- Public Relations Specialist
- Management Analyst
- Billing Clerk

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
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

<https://mahoningctc.com/early-childhood-education-program>

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

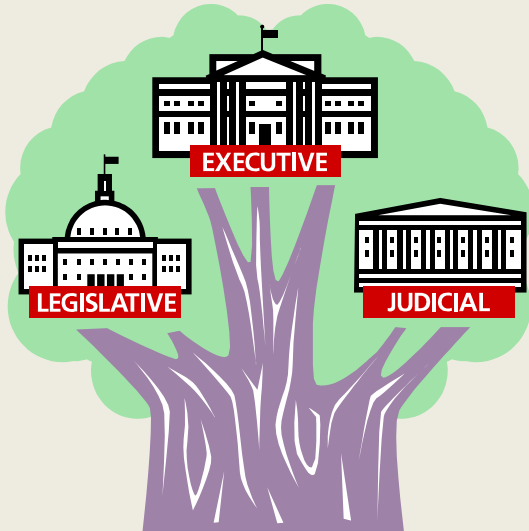
Appraiser
Financial Institution Manager (Banker)
Loan Officer (Mortgage or others)
Securities Trader
Tax Preparer or Auditor
Claim Examiner or Adjuster

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
Learning and speaking a foreign language
Making speeches
Running for class or club office
Volunteering as a legislative aide
Campaigning for political candidates

CAREERS

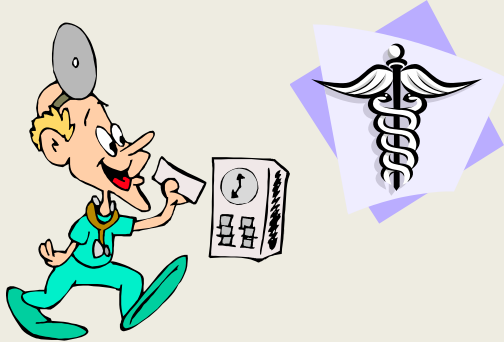
Government Investigator (FBI, CIA, DIA)
Public Works Director
City or Town Manager
Congressional Aide
Legislative Assistant
State Department Official

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.



<https://mahoningctc.com/allied-health-prenursing>

<https://mahoningctc.com/exercise-sciences>

<https://mahoningctc.com/biomedical.html>

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

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

<https://mahoningctc.com/culinary-arts-program>

<https://mahoningctc.com/cosmetology-program>

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

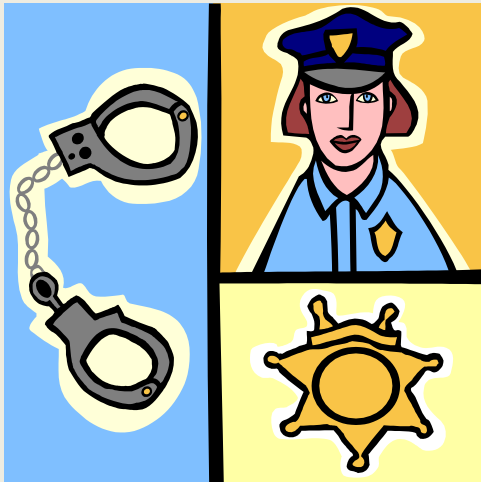
Advanced Math courses, Keyboarding, Computers
Information Systems, Computer New work
Administrator, IT Engineering, Applied technology,
Web Design, Law and Ethics

<https://mahoningctc.com/computer-networking>

<https://mahoningctc.com/software-engineering-program>

LAW PUBLIC SAFETY, AND SECURITY

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



INTERESTS

Reading mystery novels or watching mystery movies
Following court cases in the news
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

<https://mahoningctc.com/public-safety-program>

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.



<https://mahoningctc.com/advanced-manufacturing-tech>

<https://mahoningctc.com/welding-certification-course>

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

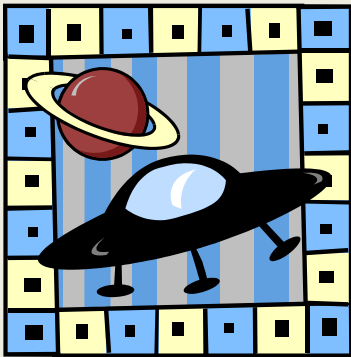
Real Estate Agent or manager
Real Estate Appraiser
Fashion or Floral Designer
Retail Store Manager or Clerk
Customer Service Representative
Sales manager
Fashion Model

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,



<https://mahoningctc.com/stemme2/>

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.

<https://mahoningctc.com/automotive-technologies>

<https://mahoningctc.com/custom-auto-painting,-design-and-repair>

<https://mahoningctc.com/diesel-power-tech-program>

<https://mahoningctc.com/aviation-maintenance-program>

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. A blue arrow labeled '1' points to the 'OCCUPATION GROUPS' list on the left. Another blue arrow labeled '2' points to the 'Search Handbook' box in the top right. A third blue arrow labeled '3' points to the 'A-Z INDEX' bar at the bottom.

1

2

3

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 _____

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? _____