

The 16 CAREER CLUSTERS

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

MCCTC CBI Program



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.

[Animal Science](#)

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

[Building Construction and Remodeling](#)

[Electricity](#)

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

[Creative Arts and Design](#)

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 fundraiser
- 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

[Early Childhood Education](#)

FINANCE



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 fundraiser
- 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.



[Allied Health and Pre-Nursing](#)

[Exercise Science and Physical Therapy](#)

[Biomedical Science](#)

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

[Culinary Arts](#)

[Cosmetology](#)

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 Network Administrator, IT Engineering, Applied technology, Web Design, Law and Ethics

[Networking and Cybersecurity](#)

[Software Development](#)

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
Firefighter 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

[Public Safety](#)

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.



[Advanced Manufacturing](#)

[Welding](#)

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 advice 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

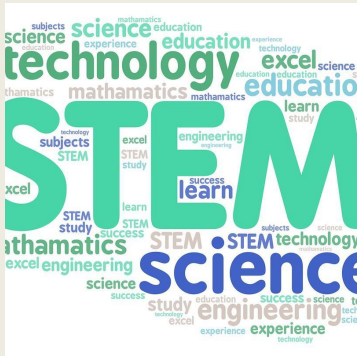
- Real Estate Agent or manager
- Real Estate Appraiser
- Fashion or Floral Designer
- Retail Store Manager or Clerk
- Customer Service Representative
- Sales manager
- Fashion Model

SUGGESTED HIGH SCHOOL COURSES

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



[Engineering and Robotics](#)

[STEM](#)

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.

[Automotive Technologies](#)

[Custom Auto Paint, Design, and Repair](#)

[Diesel Power Tech](#)

[Aviation Maintenance](#)

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 for OOH HOME, OCCUPATION FINDER, OOH FAQ, OOH GLOSSARY, A-Z INDEX, OOH SITE MAP, and EN ESPAÑOL. Below this is the main header with the title 'OCCUPATIONAL OUTLOOK HANDBOOK' and a search box labeled 'Search Handbook' with a 'Go' button. A blue arrow labeled '2' points to the search box. Below the header, there is a 'Home' section with a brief description of the site's purpose. To the left, there is a list of 'OCCUPATION GROUPS' with a blue arrow labeled '1' pointing to the list. To the right, there is a 'SELECT OCCUPATIONS BY' section with dropdown menus for '2015 Median Pay', 'Entry level education', 'On the job training', 'Number of New Jobs (Projected)', and 'Growth Rate (Projected)', followed by a 'GO' button. Below that is a 'FEATURED OCCUPATION' section for 'Financial Analysts' with a photo of a woman working at a computer and a brief description. At the bottom, there is an 'A-Z INDEX' section with a list of letters from A to Z, and a blue arrow labeled '3' pointing to the letter 'A'. 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.

Career Research Assignment

