



# 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.

[Animal Pre-Veterinary 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

# Communications Arts, A/V Tech &

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



[Digital Design and Print Technology](#)

[Creative Arts and Design](#)

## 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 fundraiser
- Managing tasks for a group

## CAREERS

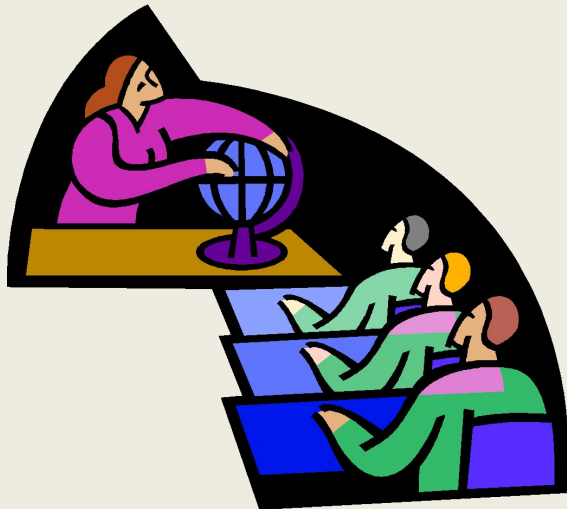
Accountant or CPA  
Financial Manager  
Company Executive (CEO, CFO)  
Office Manager  
Public Relations Specialist  
Management Analyst  
Billing Clerk

## 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
- 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

# 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

Actuary

Appraiser

Financial Institution Manager (Banker)

Loan Officer (Mortgage or others)

Securities Trader

Tax Preparer or Auditor

Claim Examiner or Adjuster

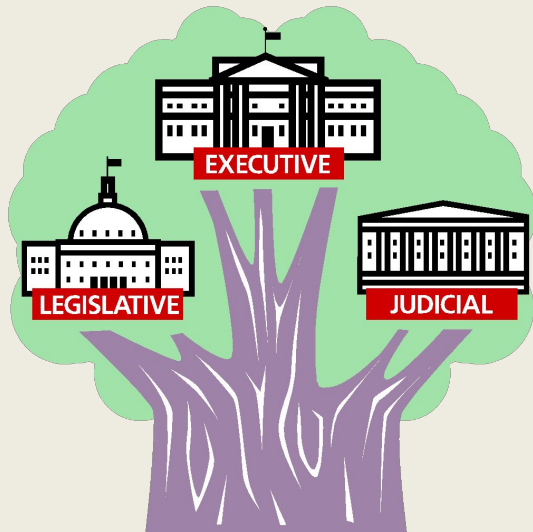
## SUGGESTED HIGH SCHOOL COURSES

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

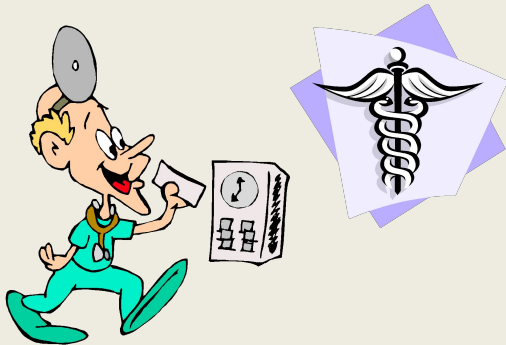
## SUGGESTED HIGH SCHOOL COURSES

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.



[Biotechnology/Biomedical Research](#)

[Allied Health and Pre-Nursing](#)

[Exercise Science and Physical Therapy Technology](#)

## 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

# 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

[Cosmetology](#)

# 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

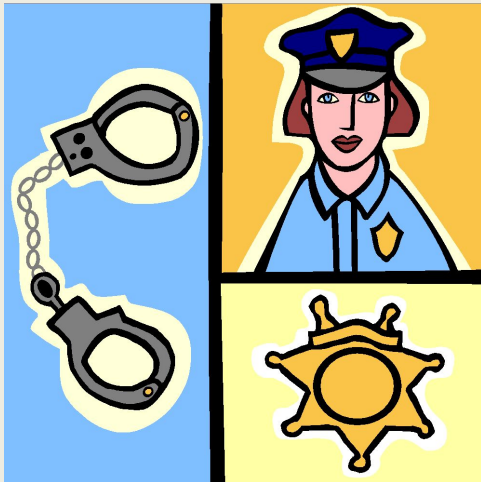
Advanced Math courses, Keyboarding, Computers  
Information Systems, Computer New work  
Administrator, IT Engineering, Applied technology,  
Web Design, Law and Ethics

[Networking and Cybersecurity Program](#)

[Software Engineering and 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
- 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

Firefighter or Inspector

Forensic Artist

Paralegal

Probation and Parole Officer

## SUGGESTED HIGH SCHOOL COURSES

Law, Government, EMT, History, Psychology, Sociology,

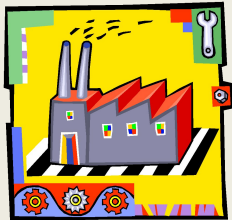
Data Processing, Computer Literacy, Health & PE

First Aid, Math, Office Administration

[Public Safety High School 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.



[Engineering and Robotics](#)

[Welding](#)

[Advanced Manufacturing](#)

## 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

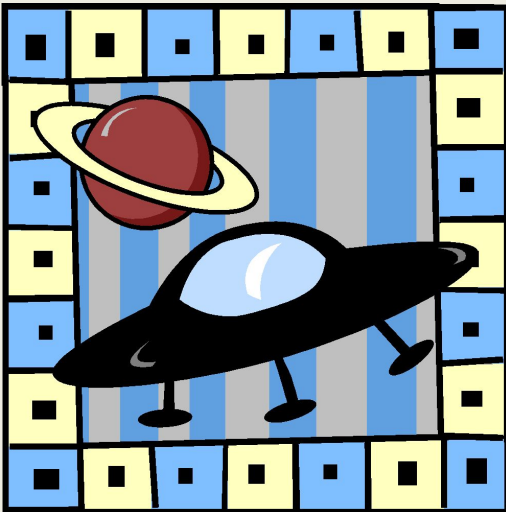
## SUGGESTED HIGH SCHOOL COURSES

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,



## 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.



[Truck and Diesel Mechanic](#)

[Automotive Technology](#)

[Custom Auto Painting Design and Repair](#)

[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