Agriculture, Food and Natural Resources

Prepares learners for careers in the planning, implementation, production, management, processing and marketing of agricultural commodities and service.

Interests

Enjoy working with your hands
Enjoy working outside
Enjoy working with animals
Lifelong learning habits and self-motivated

Careers

Farmers
Ranchers
Animal Breeders
Foresters
Zooologist
Natural Science Managers
Hunters
Geological and Petroleum Technicians

Suggested High School Courses

Architecture & Construction

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

Interests

- Enjoy working with your hands, using tools
- Have an aptitude for math and science
- Building homes or other structures
- Building bridges & roadways

Careers

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

Suggested High School Courses

Arts, A/V Tech & Communications

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 or pictures
- Taking photographs
- Making jewelry, sculpture or ceramics
- Designing an newspaper layout

Careers

- Graphic Artist
- Art, Theatre or Music Teacher
- Newspaper Reporter
- Photojournalist
- Author or Writer or Director
- Musician

Suggested High School Courses

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

English, Personal Business Finance, High School Internship, Accounting, Algebra 1, Geometry, Algebra 2, Computer Technology, Intro to Computer Science, Adv. Computers, Journalism, Journalism 2, Pre-Calculus, Ag Business Sales & Marketing, Ag Leadership & Communication, Spanish 1, 2 & 3, Graphic Design.
Education & Training

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

Interests

- Tutoring or babysitting young children
- Creating lesson plans
- Attending 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, High School Internship, College Sociology, College Psychology, Child Development 1, Child Development 2, Nutrition & Wellness, Culinary Arts, Hospitality & Tourism, Lifetime Fitness, Intro to Education, Spanish 1, 2 & 3, Creative Writing, Two-D Media, Graphic Design.
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
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

Algebra 1, Geometry, Algebra 2, Computer Technology, Personal Business & Finance, Accounting, English courses, High School Internship, Pre-Calculus, College Psychology, College Sociology, Ag Business Sales & Marketing, Ag Leadership & Communications.
Government & Public Administration

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 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

- English, Personal Business & Finance, High School internship, Spanish 1, 2 & 3, College Sociology
- Computers, Intro to Computer Science, Creative Writing, Journalism 1 & 2.
Health Science

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

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, College Biology, English, Child Development 1, Child Development 2, PE/Health, Algebra 1, Algebra 2, Fitness Class, Lifetime Fitness, Weightlifting, High School Internship, College Psychology, College Sociology, Nutrition & Wellness, Culinary Arts, Spanish 1, 2 &3.
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 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

Preparring 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 at a homeless shelter
- 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

- Personal Business & Finance, College Sociology, College Psychology, Spanish 1, 2 & 3, English, Child Development 1, Child Development 2, Nutrition & Wellness, Biology, Biology 2, Computer Technology, Accounting, Two-D Media, Graphic Design, Intro to Computer Science, Ag Business Sales & Marketing, High School Internship.
IT Information Technology

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

Interests

- Play Video games
- Assembly 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

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

Suggested High School Courses

Public Safety, Corrections & 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

American History, American Government, College Psychology, College Sociology, Computer Technology, Algebra 1, Algebra 2, Spanish 1, 2 & 3, Lifetime Fitness, Fitness Class, English, Child Development 1, Child Development 2, Accounting, Intro to Computer Science, Adv. Computers, High School Internship, Creative Writing.
Manufacturing

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

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

- Algebra 1, Algebra 2, Geometry
- Welding 1 & 2, Adv. Welding
- Intro to Drafting & Design
- Mechanical Drafting, Architectural Drafting
- Residential Construction, Intro to Architectural Construction
- Intro to Engineering
- Solid Works, Weightlifting, Fitness Class, Lifetime Fitness
- Health, High School Internship
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
- Enjoy 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

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

Transportation, Distribution and 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.

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