



## Agribusiness Systems

Financial managers explain funding options and teach money management skills to clients engaged in agriculture.



## Animal Systems

Professionals in these occupations feed, bathe, groom, exercise, breed, and provide veterinary care for animals. Ranchers raise and sell livestock for profit.



## Environmental Service Systems

Professionals in environmental service manage systems, such as water treatment systems, protect and renew the environment.



## Food Products and Processing Systems

Employees in food processing cook, preserve, prepare, store, and distribute food.



## Plant Systems

Plant system professionals are involved in the cultivation and marketing of crops and other plants.



## Power, Structural, and Technical Systems

People who work in this field apply knowledge of engineering, hydraulics, pneumatics, electronics, power, structures, and controls to the practice of agriculture.



## Natural Resources Systems

Professionals in this field manage, maintain, and, in some cases, extract and harvest natural resources for human use.



## Biotechnology

Professionals in Biotechnology conduct standardized test and laboratory analyses to evaluate the quantity or quality of physical or chemical substances in food and other products.



## Design/Pre-Construction

Professionals in this field create designs for the construction of cities, homes, and highways. They turn ideas into plans. Designers conceptualize ideas for the inside environments of homes, offices, and retail outlets, as well as hotels and resorts.



## Construction

Construction workers build cities, homes, and highways. They construct or model buildings used for living and work on structures such as streets, bridges, tunnels, and airports.



## Maintenance/Operations

People working in this field are responsible for the maintenance, repair, and restoration of cities, houses, and highways. They also repair and maintain factory equipment, streets, schools, offices, and homes.



## Audio, Video Technology, and Film

Employees in this field work with the equipment used in producing sound and images. They make sure equipment is available and working.



## Journalism and Broadcasting

Professionals in these occupations make sure the news reaches the public, through the media of newspapers, magazines, radio, television, and film.



## Performing Arts

Professionals in Performing Arts put on plays, concerts, and dance recitals, either performing or working behind the scenes as choreographers, agents, producers, directors, and a host of other supporting roles.



## Printing Technology

Employees in this area prepare materials for printing and transform text and pictures into digital images or finished pages.



## Visual Arts

Visual artists use art to communicate thoughts, ideas, or feelings. They use a variety of methods such as painting, sculpture, and illustration.



## Telecommunication

Telecommunications experts focus on connections between computers and communications equipment. They set up, operate, and maintain telecommunications equipment and networks.



## Administrative and Information Support

Employees who work in this area manage the activities of an office. One of their goals is to ensure that information is collected and shared with staff and clients.

# Programs of Study



## Business Analysis

If a business is experiencing problems, the owner might contact a professional in this field for help. To understand the problems, he or she would analyze information and create solutions, then make a proposal to the business owner.



## Business Financial Management and Accounting

Employees in this field use general accounting systems. They use computer systems to prepare bills, taxes, and reports. They help make important business decisions.



## Human Resources

People in this field are responsible for finding and keeping employees. To do this, they interview and hire the most qualified applicants.



## Management

Employees working in management have a variety of responsibilities to keep a business in operation. They build relationships with people outside the company or department and with employees. They might negotiate with or hire employees.



## Marketing

Marketing managers develop marketing plans to sell products or services. Marketing managers identify and keep track of trends in buying and selling. They do this by reading trade journals and attending trade shows.



## Teaching and Training

In addition to being knowledgeable in the subjects they teach, professionals in this area must be able to communicate, inspire trust and confidence, motivate learners, and understand their and emotional needs.



## Professional Support Services

Professionals in this field assist students in schools with personal and family needs, mental health needs, educational goals, and career decision making.



## Administration and Administrative Support

In this field, professionals provide instructional leadership and manage the day-to-day activities in schools, colleges, and universities. They also manage educational programs in businesses, correctional facilities, and community service organizations.



## Banking and Related Services

Employees in this field work with individuals and companies to hold money; pay interest; and provide loans, credit, and payment services.



## Business Financial Management

Business Financial Managers use general accounting systems to prepare financial reports. They also use information to help businesses make financial decisions.



## Financial and Investment Planning

Professionals in this area help businesses and individuals make decisions about their investments.



## Insurance Services

Employees in the insurance industry provide financial protection to individuals and businesses. Specialists in insurance include actuaries, clerks, underwriters, and salespeople.



## Foreign Service

Professionals in this field serve in foreign embassies and consulates, direct diplomatic missions, and advise government leaders on foreign affairs.



## Governance

Employees in this field include elected or appointed federal officials, state legislators, local elected officials, and staff members of these officials.



## Revenue and Taxation

Professionals in this area collect taxes levied to fund the activities of national, state, and local governments.



## National Security

National Security professionals, including officers and enlisted men and women of the armed forces, Coast Guard, and National Guard, provide our national defense.



## Public Management and Administration

Employees in this field of government work to implement the plans and programs developed by elected officials.

# Programs of Study



## Planning

Urban and regional planners develop plans and designs for use of land. They design residential developments and prepare for the growth of communities.



## Regulation

Government regulators enforce standards set by law in areas such as immigration, food and drug quality, sales of stock, and banking.



## Biotechnology Research & Development

Scientists in this field perform bioscience research and development connected with the delivery of health care. These professionals may study human diseases to discover new treatments or develop medical devices to directly assist patients.



## Diagnostic Services

Employees in Diagnostic Services use tests and evaluations to aid in the detection, diagnosis, and treatment of diseases and injuries.



## Health Informatics

Professionals in this area include administrators who manage healthcare agencies as well as employees in those agencies who manage patient data, financial information, and computer applications related to healthcare management.



## Support Services

Employees in this field perform all the services that provide a therapeutic environment for patient care, including biomedical engineering, hospital maintenance, dietary services, and others.



## Therapeutic Services

Professionals in Therapeutic Services work directly with patients; they may provide care, treatment, counseling, and health education information.



## Restaurants and Food/ Beverage Services

Food service managers are responsible for the daily operations of restaurants. They oversee the ordering, preparation, and service of food and beverages to patrons.



## Lodging

Professionals in this field take care of guests who stay at hotels and motels. They provide services that make their guests' stay pleasant.



## Travel and Tourism

Employees in this field make sure travelers have good experiences. They help travelers plan and arrange trips.



## Recreation, Amusements and Attractions

Professionals in this area plan, organize, and direct activities in playgrounds and recreation centers, parks, community centers, theme parks, and tourist attractions.



## Consumer Services

Professionals in this area help people with decisions and problems relating to finance, real estate, insurance, and consumer goods.



## Counseling & Mental Health Services

Professionals in these occupations assist people with personal, family, educational, mental health, and career decisions and problems.



## Personal Care Services

Personal care professionals help people with their personal appearance, including styling hair, giving manicures, providing facial treatments, and giving makeup advice. They also provide health and fitness training.



## Early Childhood Development & Services

Professionals in these careers nurture and teach preschool-age children.



## Family & Community Services

Some professionals in this area help families and individuals meet their nutritional needs. Others help vulnerable populations cope with the problems of daily living, coindividuals, train or retrain the unemployed, careunsel troubled for the elderly, and solicit contributions for various social agencies.



## Web & Digital Media

Specialists in Interactive Media create, design, and produce interactive multimedia products and services.

# Programs of Study



## Information Support and Services

Professionals in this field are involved with the deployment of information technology, including implementing computer systems and software, providing technical assistance, and managing information systems.



## Network Systems

In this field, employees plan, implement, and analyze computer networks. Their work includes the design, installation, maintenance, and management of network systems.



## Programming and Software Development

Professionals in this field design and implement computer systems and software by applying their expertise in programming languages, operating systems, and software development.



## Correction Services

Workers in this field are responsible for guarding people who have been arrested or convicted of a crime. Their primary mission is to protect the public.



## Emergency and Fire Management Services

In this field, workers are called upon to put out fires, treat injuries, and perform other vital functions. Firefighters and emergency services workers help protect the public.



## Law Enforcement Services

In this field, duties include controlling traffic and investigating crimes. People in it maintain order, enforce laws, issue traffic tickets, and investigate accidents.



## Legal Services

People working in this field hold positions of great responsibility and are obligated to follow a strict code of ethics.



## Security and Protective Services

Employees in this field often work in public buildings, factories, warehouses, government buildings, and military bases. They protect products, computers and machines, laboratories, or people.



## Health, Safety, & Environmental Assurance

Employees in this field create safe working environments. They monitor and maintain safety and health procedures. They also ensure that factories comply with government regulations.



## Logistics and Inventory Control

In this field, workers get materials to production workers. They order the items and check them into the company warehouse when delivered. In addition, they pack and ship the finished products.



## Quality Assurance

In this field, workers make sure manufactured goods meet design standards and specifications. If there are problems in production, they might be asked to find the cause and propose a solution.



## Maintenance, Installation, and Repair

Workers in this field install, maintain, and repair the manufacturing equipment as needed.



## Production

Employees in this field transform raw materials into finished products. They create the parts needed to make products or assemble the parts into products.



## Manufacturing Production Process Development

Employees in this field design and plan how new products are going to be manufactured.



## Management and Entrepreneurship

In this field, employees direct the marketing operations of a business. They might work for a small company or do all the activities themselves.



## Buying and Merchandising

Employees in this field get the product into the hands of the customer. They might buy the products that the businesses sell or design the packaging for display and the product.



## Distribution and Logistics

Employees in this field arrange delivery of products to stores for sale to consumers. They make sure there are enough products to be sold and stocked.

# Programs of Study



## E-Marketing

Employees in this field use the Internet to sell products and services. They create the content for the website and conduct market research using the latest electronic tools.



## Marketing Communications and Promotion

Employees in this field design and implement marketing plans. They create ads for television or magazines and also develop spot ads for radio.



## Marketing Information Management and Research

Employees in this field collect and analyze many different types of information that is used to design new products and to predict future sales. They might get information to compare a company against a competitor.



## Professional Sales and Marketing

Employees in this field make sure goods and services are sold to businesses or individuals. Exhibit designers create appealing displays to give information or attract attention.



## Engineering and Technology

Careers in this field involve problem solving in design and development of products and systems. Individuals pursuing these careers evaluate problems to develop and test solutions and provide advice and consultation.



## Science and Math

Those who choose careers in this field plan, manage, and provide research and professional services. Their goal is improve our understanding of the natural world.



## Facility and Mobile Equipment Maintenance

Workers in this field keep machinery running. They also look for ways to operate machinery safely for less money.



## Health, Safety, and Environmental Management

Workers in this field look for ways to prevent accidents in the workplace. They inspect buildings and machines for hazards and safety violations.



## Logistics Planning and Management Services

In this field, workers make sure products arrive when and where they should at the lowest possible cost.



## Sales and Service

Workers in this field develop pricing strategies, balance company objectives, and manage customer satisfaction. They identify, develop, and evaluate sales strategies.



## Transportation Operations

Workers in this field operate the trains, airplanes, trucks, buses, and other vehicles that deliver people and goods to their destinations.



## Transportation Systems/Infrastructure Planning, Management, and Regulation

Workers in this field plan and enforce regulations to make travel safer and more efficient by air, rail, and on streets and highways.



## Warehousing and Distribution Center Operations

In this field, employees work in terminals and warehouses to make sure items from all over the world are delivered to the right place and on time.



## General Studies

Courses from the curriculum of each endorsement are and/or earned credits in a variety of advanced courses from multiple content areas sufficient to complete the distinguished level of achievement under the foundation high school program.