www.alcareerinfo.org

INFORMATION TECHNOLOGY

Gives you the opportunity to design, develop and manage different types of software programs and hardware. This

field requires a solid foundation in math and science as well as high technical skills. Information technology workers can be found in virtually every sector of the economy, providing assistance at a multitude of levels.

Network Systems Information Support & Services Web & Digital Communications Programming & Software Development

sample careers:

- Software Engineer
- Merchandising Network Administrator **Marketing Communications** Marketing Research
- Web/Designer Developer
- Database Manager
- Multimedia Producer

MARKETING, SALES & SERVICES Prepares you for careers in advertising, public relations, sales and planning. This Career Cluster allows you to demonstrate your creativity through promotional campaigns, event planning and new

sales techniques.

Professional Sales

Marketing Management

sample careers:

- Sales Associate
- Marketina Director
- Buver
- Real Estate Broker
- Customer Service Representative



LAW, PUBLIC SAFETY, **CORRECTIONS & SECURITY**

Prepares you for service in public safety and security. Responsibilities include prevention of and protection from harm such as crime or natural disasters. Career opportunities range from public safety officers to legal services to homeland security.

Correction Services Emergency & Fire Management Services Law Enforcement Services Legal Services Security & Protective Services

sample careers:

- Attorney
 Paramedic
- Fire Fighter Judge
- Police Officer
- Paralegal
- Corrections Officer



SCIENCE, TECHNOLOGY, **ENGINEERING & MATHEMATICS**

Prepares you for careers using science, technology, engineering and mathematics skills. Jobs within this Career Cluster conduct in-depth research to provide solutions to a variety of technical problems within many different fields. A postsecondary degree and relevant work experience are necessary to succeed in this field.

Engineering & Technology Science & Mathematics

sample careers:

- Chemical Engineer
- Mathematician
- Biotechnologist
- Electrical Engineer
- Biologist
- Oceanographer



TRANSPORTATION. **DISTRIBUTION & LOGISTICS**

Prepares you for careers in which you plan, manage and move everything from people to company products through a range of transportation services. Individuals in this field are involved in the logistics of all types of transportation from road to rail and air to water.

Transportation Operations

Logistics Planning & Management Services Warehousing & Distribution Center Operations Facility & Mobile Equipment Maintenance Transportation Systems/Infrastructure Planning, Management & Regulation Health, Safety & Environmental Management Sales & Services

sample careers:

- Pilot
- Automotive Technician
- Logistics Manager
- Flight Attendant
- Warehouse Manager
- Truck Driver









Alabama State Department of Education Career and Technical Education/ Workforce Development

ALABAMA STATE DEPARTMENT OF EDUCATION OCTOBER 2012 THOMAS R. BICE, STATE SUPERINTENDENT OF EDUCATION

CAREER AND TECHNICAL EDUCATION/WORKFORCE DEVELOPMENT PHILIP CLEVELAND, DIRECTOR

No person shall be denied employment, be excluded from participation in, be denied the benefits of, or be subjected to discrimination in any program or activity on the basis of disability, gender, race, religion, national origin, color, age or genetics. Ref: Sec. 1983, Civil Rights Act, 42 U.S.C.; Title VI and VII, Civil Rights Act of 1964; Rehabilitation Act of 1973, Sec. 504; Age Discrimination in Employment Act; The Americans with Disabilities Act of 1990 and The Americans with Disabilities Act Amendments Act of 2008; Equal Pay Act of 1963; Title IX of the Education Amendment of 1972; Title II of the Genetic Information Nondiscrimination Act of 2008: Title IX Coordinator, P.O. Box 302101, Montgomery, Alabama 36130-2101 or call (334) 242-8165.





16 Career Clusters

Pathways to College

and Career Readiness

MANUFACTURING Prepares you for careers in planning, managing and

performing the processing of materials into intermediate or final products. Careers also include related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.

Manufacturing Production Process Development Maintenance, Installation & Repair **Ouality Assurance** Logistics & Inventory Control Health, Safety & Environmental Assurance

- Machinist
- Manufacturing, Engineer
- Automated Press Technician
- Production Engineer

sample careers:

- Welding, Technician
- Quality Technician

Career Clusters & Career Pathways

With descriptions and sample careers

Early Childhood Development & Services

Counseling & Mental Health Services

Family & Community Services

Personal Care Services

Consumer Services

UMAN SERVICES

early childhood care, mental health services or personal care services.

This Career Cluster requires individuals to have superior communication

Prepares you for jobs in which you help families and individuals with life services. You can assist people through



AGRICULTURE, FOOD & NATURAL RESOURCES

Prepares you for careers that involve the science and mechanics of improving the quality and safety of food, cultivating and preserving our natural resources and caring for livestock and other animals. Further, you can learn about the business aspects involved in this broad field.

ARCHITECTURE

restorations, additions, alterations and repairs.

Design/Pre-Construction

Maintenance/Operation

& CONSTRUCTION

and maintain structures such as buildings, homes and bridges or

machinery. People employed in this cluster work on new structures,

Prepares you for careers that allow you to design, plan, manage, build

• Flectrician

sample careers:

• Contractor • Carpenter

• Heavy Equipment Operator

Architect
 Plumber

Food Products & Processing Systems Plant Systems **Animal Systems** Power, Structural & Technical Systems Natural Resources Systems **Environmental Service Systems** Agribusiness Systems

sample careers:

- Food Scientist
- Environmental Engineer
- Agriculture Teacher
- Animal Scientist
- Biochemist
- Agricultural Sales Director



BUSINESS MANAGEMENT &

Prepares you for careers in which you plan, organize, direct and evaluate operations in order to run a successful business. There are a variety of career opportunities available that require skills in organization, time management, customer service and communications.

General Management Business Information Management • Human Resources Administrator Human Resources Management Operations Management Administrative Support

sample careers:

- Administrative Specialist
- Entrepreneur
- Accountant

EDUCATION & TRAINING

across a range of industries. Career choices include teaching in a

classroom, leading as a college president and serving as a social worker.

Teacher

Principal

Coach

Prepares you for careers that provide education and

training services that serve individuals of all ages and

sample careers:

School Counselor

College Professor

Corporate Trainer

- Operations Manager
- Facilities Manager



GOVERNMENT & PUBLIC

Prepares you for the diverse jobs found in our government. Virtually every occupation can be found within this field. You may help our nation defend against foreign aggression, represent our interest abroad, or pass and enforce local laws.

Governance National Security Foreign Service Planning

Revenue & Taxation Regulation Public Management & Administration

sample careers:

- Leaislator
- City Manager
- Policy/Budget Analyst
- Recreation/Parks Director
- State/Federal Agency Director
- Urban/Regional Planner



HEALTH SCIENCES

Prepares you to help keep people healthy and treat those who are not. Work directly with people, by conducting

research on diseases and other important health information. This field allows you to work in diverse environments such as hospitals, medical and dental offices or cruise ships.

Therapeutic Services Diagnostic Services Health Informatics Support Services Biotechnology Research & Development

- Pediatrician
- Physical Therapist
- Radiologic-Technologist
- Occupational Therapist
- Hospital Administrator

sample careers:

Health Information Technologist

HOSPITALITY & TOURISM

Prepares you for careers that allow you to travel and work with a variety of people. Careers can be found all

over the world and range anywhere from hotel and restaurant operations to working in amusement parks and other tourist destinations. Excellent customer service skills are essential for everyone in this field.

Travel & Tourism Lodging Recreation, Amusements & Attractions

Restaurants & Food/Beverage Services sample careers:

- Lodging Manager
- Chef
- Travel and Tourism Manager
- Food Service Manager
- Restaurant Manager
- Leisure and Entertainment Manager



and problem-solving skills to provide various levels of support. sample careers:

- Social Worker
- Psychologist
- Child Care Worker
- Substance Abuse Specialist
- Employment Specialist
- Psychotherapist



Preparing students to reach their full potential:

College Ready!

Construction

ARTS, A/V TECHNOLOGY & COMMUNICATIONS

Allows you to apply your creativity in a variety of different areas. This industry allows you to learn about advanced technologies used in venues ranging from corporate boardrooms, hotels, and convention centers, to classrooms, theme parks, stadiums and museums.

Audio & Video Technology & Film Printing Technology Visual Arts Performing Arts Journalism & Broadcasting Telecommunications

sample careers:

- Actor-Actress
- Video Producer
- Journalist
- Audio Engineer
- Tele-Communications Technologist
- Printing/Graphics Technologist

FINANCE

Prepares you for careers in financial and investment planning, banking, insurance and business financial management. Every sector of the economy offers a job in

this career. Man career opportunities require specialized skills in organization, time management, customer service and communication.

Securities & Investments **Business Finance** Accounting Insurance Banking Services

Administration &

Teaching/Training

Administrative Support

Professional Support Services

sample careers: Stock Broker

- Banker
- Insurance Agent
- Financial Planner
- Loan Officer
- Tax Examiner