

AGRICULTURE PROGRAM CONCENTRATION - *The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.*

<http://www.careervoyages.gov>

Pathways	Agriscience	Forestry/Natural Resources	Plant Science/Horticulture	Animal Science	Agricultural Mechanics	Agribusiness Management	Veterinary Science
*SAMPLE Career Occupations	<ul style="list-style-type: none"> Ecologists Park Mangers • Environmental Interpreters • Fisheries Technicians • Water Monitoring Technician • Hydrologists • Biotechnology Lab Technician • Soil & Water Specialists • Botanists • Education & Extension Specialists • Forest Geneticists • Aquaculturalists • Animal Scientists • Embryo Technologists • Vivarian Technicians • Wildlife Biologists • Livestock Geneticists • Animal Nutritionists • Meat Science Researcher • Reproductive Physiologists • Embryo Transfer Technicians 	<ul style="list-style-type: none"> Cartographers • Wildlife Managers • Range Technicians • Ecologists Park Mangers • Environmental Interpreters • Fish and Game Officers • Loggers • Forest Technicians • Log Graders • Pulp and Paper Manager • Soil Geology Technician • Geologists • Mining Engineers • Fisheries Technicians • Water Monitoring Technician • Hydrologists • Fish Hatchery Manager • Commercial Fishermen • Fishing Vessel Operators • Vessel Crew 	<ul style="list-style-type: none"> Bioinformatics Specialists • Plant Breeders and Geneticists • Biotechnology Lab Technician • Soil & Water Specialists • Crop Farm Managers • Agricultural Educators • Plant Pathologists • Aquaculturalists • Sales Representatives • Botanists • Tree Surgeons • Education & Extension Specialists • Agricultural Journalists • Commodity Marketing Specialists • Grain Operations Superintendents • Custom Hay/Silage Operators • Forest Geneticists • Golf Course Superintendents • Greenhouse Mangers • Growers • Farmers • Ranchers 	<ul style="list-style-type: none"> Agricultural Educators • Livestock Producers • Aquaculturalists • Animal Caretakers-Poultry Managers • Equine Managers-Veterinarians • Veterinary Assistants • Feedlot Specialists • Animal Scientists • Embryo Technologists • Livestock Buyers • Feed Sales Representatives • Vivarian Technicians • Wildlife Biologists • Livestock Geneticists • Animal Nutritionists • Dairy Producers • Livestock Inspectors • Feed Sales Specialists • Animal Health Salespersons • Meat Science Researcher • Reproductive Physiologists • Embryo Transfer Technicians • Pet Shop Operators • USDA Inspectors 	<ul style="list-style-type: none"> Machine Operators • Electronics Systems Technicians • Agricultural Engineers • Agricultural Extension Engineering Specialists • Heavy Equipment Maintenance Technicians • Recycling Technicians • Waste Water Treatment Plant Operators • Equipment/Parts Mangers • Welders • Machinists • Communication Technicians • Agricultural Applications Software Developers/Programmers • Database Administrators • Computer Service Technical Support Technicians • Lab Specialists • GPS Technicians • Remote Sensing Specialists 	<ul style="list-style-type: none"> Salesperson • Sales Manager • Banker/Loan Officer • Field Reps for Bank, Insurance Company or Government Program • Farm Investment Manager • Agricultural Commodity Broker • Agricultural Economist • Farmer/Rancher/Feedlot Operator • Farm Manager • Livestock Rancher / Breeder • Dairy Herd Supervisor (DHIA) • Agricultural Products Buyer • Animal Health Products Distributor • Livestock Seller • Feed and Supply Store Manager • Produce Commission Agent • Ag Lenders • Agricultural Chemical Dealer • Field Service Representative • Chemical Sales Representative • Pulp and Paper Manager • Soil Geology Technician 	<ul style="list-style-type: none"> Equine Managers • Veterinarians • Veterinary Assistants • Animal Scientists • Wildlife Biologists • Livestock Geneticists • Animal Nutritionists

Foundational Skills

Technical Skills • Academic Foundations • Communications • Problem Solving and Critical Thinking • Information Technology Applications • Systems • Safety, Health and Environment • Leadership and Teamwork • Ethics and Legal Responsibilities • Career Development • Entrepreneurship

*Source: Federal Career Clusters at www.careerclusters.org
GDOE/Career, Technical and Agricultural Education Division, REV January, 2009

ARCHITECTURE, CONSTRUCTION, COMMUNICATIONS & TRANSPORTATION PROGRAM CONCENTRATION- *The designing, producing, exhibiting, and publishing multimedia content; managing, building and maintaining the built environment; planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.* <http://www.careervoyages.gov>

Pathways	Transportation Logistical Operations	Transportation Logistical Support	Flight Operations	Aircraft Support	Architectural, Drawing & Design	Construction	Metals	Graphic Communications	Graphic Design	Broadcast/ Video Production
*SAMPLE Career Occupations	Dispatchers-- Truck/bus/taxi, traffic managers · Truck drivers-heavy · Truck drivers-tractor-trailer · Truck drivers—light or delivery services · Bus drivers-transit and intercity · Bus drivers-school · Taxi drivers and chauffeurs · Truck/bus/taxi terminal operations and support · Logistician · Logistics managers · Logistics Engineers · Logistics analysts · Logistics consultants · International logistics	Mobile equipment maintenance managers · Electrical and electronic installers and repairers—transportation equipment · Mobile heavy equipment mechanics · Motorboat mechanics · Ship mechanics and repairers · Motorboat mechanics · Automotive/truck mechanics and body repairers · Electronic equipment installers and repairers—motor vehicle · Automotive body and related repairers · Automotive glass installers and repairers · Automotive service technicians and mechanics · Automotive master mechanics · Automotive specialty technicians · Bus and truck mechanics and diesel engine specialists · Motorcycle mechanics · Tire repairers and changers · Traffic engineers · Traffic technicians · Motor vehicle inspectors · Freight inspectors	Airplane pilots/copilots · Commercial pilots · Flight engineers · Flight attendants · Dispatchers-air · Traffic managers · Air traffic controllers · Aircraft cargo handling supervisors · Airfield operations specialists · Other airlines operations and support	Aerospace engineering and operations technicians · Aircraft mechanics and service technicians · Airframe mechanics · Power plant mechanics · Aircraft engine specialists · Aircraft body and bonded structure repairers · Avionics technicians · Aviation inspectors	Architect · Architectural and Civil Drafter · Drafter · Regional and Urban Planner/Designer · Environmental Designer · Civil Engineer · Electrical Engineer · Environmental Engineer (hydro engineering) · Landscape Architect · Surveyor Building Code Official · Computer Aided Drafter (CAD) · Renderer ·	General Contractor/Builder · Specialty Contractor · Construction Engineer · Construction Manager · Project Manager · Construction Foreman · Estimator · Project Inspector · Manufacturer's Representative · Sales and Marketing Manager · Equipment and Material Manager · Scheduler · Safety Director · Construction inspector · Subcontractor · Preservationist · Service Contractor · Field Supervisor · Specialty Trades Subcontractor · Mason · Construction Craft Laborer · Carpenter · System Installer · Electronic Systems Technician · Security and Fire Alarm Systems Installer · Concrete Finisher · Glazier · Tile and Marble Setter · Elevator Installer · Roofer · Painter · Plasterer/Drywall · Paperhanger · Insulation Worker · Drywall Installer · Plumber · Heating, Ventilation, Air Conditioning and Refrigeration Mechanic · Carpet Installer · Electrician · Steamfitter · Terrazzo Worker and Finisher · Cost Estimator · Electrical and Electronic Engineering Technician · Civil Engineering Technician · Environmental Engineering Technician · Surveying and Mapping Technician · Interior Designer · General Maintenance Contractor	Iron/ Metalworker · Pipe Fitter · Millwright · Sheet metal Worker · Boilermaker ·	Graphics and Printing Equipment Operators · Lithographers and Plate makers · Computer Typography and Composition Equipment Operators · Desktop Publishing Specialists · Web Page Designers ·	Graphics and Printing Equipment Operators · Desktop Publishing Specialists · Web Page Designers ·	Video Systems Technicians · Video Graphics, Special Effects, and Animation · Audio-Video Designers and Engineers · Technical Computer Support Technicians Film, Video, and DVD · Audio-Video System Service Technicians · Audio Systems Technicians · Audio/Video Operations · Control Room Technician · Station Mangers and Radio & TV Announcers · Publishers, Editors, and Journalists and Reporters, Print, Broadcast, Other Broadcast Technicians

Foundational Skills

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GDOE/Career, Technical and Agricultural Education Division, REV January, 2009

ARTS & HUMANITIES PROGRAM CONCENTRATION- *The design, production, exhibition, performing, writing and publishing of multimedia content including visual and performing arts and design, journalism and entertainment services.*

Pathways	Visual Arts	Performing Arts	Journalism	Foreign Language
*SAMPLE Occupations	<ul style="list-style-type: none"> • Commercial Photographers, Digital, Still, Video, Film • Interior Designers, Commercial/Residential and Home Furnishings coordinators • Graphic Designers, CAD Technicians, and Fashion Illustrators • Textile Designers • Commercial Artists, Illustrators, and Artists, all Media • Curators and Gallery Managers • Fashion Designers • Artist • Sculptor 	<ul style="list-style-type: none"> • Production Managers, Digital, Video, Stage • Cinematographers, Film/Video Editors • Dancers • Play Writers, Screen Writers, Screen Editors, Script Writers • Directors and Coaches, Performers, Actors, Musicians • Make-Up Artists and Costume Designers • Stagecraft Designers, Lighters, Sets, Sound Effects, Acoustics, Painters • Composers, Conductors, and Music Instructors 	<ul style="list-style-type: none"> • Publishers, Editors, and Journalist and Reporters, Print, Broadcast, Other 	<ul style="list-style-type: none"> • Overseas sales representative • Overseas manager • Overseas researcher • U.S.-based import/export officer or Investment Specialist • Interpreter • Translator • Technical writer/translator • Subtitled/Voice-Over • International Operator • Foreign Correspondent
<p>Foundational Skills</p> <p><i>Technical Skills • Academic Foundations • Communications • Problem Solving and Critical Thinking • Information Technology Applications • Systems • Safety, Health and Environment • Leadership and Teamwork • Ethics and Legal Responsibilities • Career Development • Entrepreneurship</i></p>				

BUSINESS & COMPUTER SCIENCE PROGRAM CONCENTRATION-The planning, organizing, directing and evaluating business functions essential to efficient and productive business operations available in every sector of the economy. <http://www.careervoyages.gov>

Pathway	Small Business Development	Computing	Financial Management-Accounting	Financial Management-Services	Interactive Media	Administrative /Information Support	Computer Systems and Support	Computer Networking
*SAMPLE Career Occupations	<p>Entrepreneurs • Chief Executives • General Managers • Accounting Manager •Accounts Payable Manager • Assistant Credit Manager • Billing Manager • Business & Development Manager • Compensation & Benefits Manager • Credit & Collections Manager • Payroll Manager • Risk Manager • Operations Managers • Public Relations Managers • Human Resource Managers • Management Analysts • Facilities Managers • Association Managers • Meeting & Convention Planners • Administrative Services Managers • Sports & Entertainment Managers • Hospital Management • Government Management • Public Organization Management •Manufacturing Management • Purchasing Management • First Line Supervisors • Public Relations Specialists • Senior Managers • Management Trainees</p>	<p>Analyst * Engineer Business Analyst * Computer Engineer * Data Modeler Designer/Engineer * Programmer Analyst * Program Manager * Programmer * Programmer/Analyst * Project Lead Specialist * Architect * Design Engineer * Development Engineer * Engineer * QA Specialist *</p>	<p>Accountants * Accounting Clerk * Accounting Supervisor * Adjuster * Adjustment Clerk * Assistant Treasurer * Auditor * Bookkeeper * Budget Analyst * Budget Manager * Billing Supervisor * Cash Manager * Controller * Merger & Acquisitions Manager * Price Analyst * Collections Executive * Investment Executive * Treasurer * Chief Financial Officer * Finance Director * Certified Public Accountant * Accounts Receivable Clerk * Cost Accountant * Billing Clerk * Payroll Accounting Clerk</p>	<p>Personal Financial Advisor•Tax Preparation• Sales Agents, Securities, Commodities•Investment Advisors•Brokerage Clerk •Development Officers• Accountants• Financial Analysts•Treasurers, Controllers and Chief Revenue Agents•Auditor• Economists•Tax Examiners•Collectors• Revenue Agents•Credit Analyst• Loan Officers•Bill and Account Collectors• Tellers•Loan Processors•Customer Service Reps•Data Processors•Accounting •Internal Auditors •Compliance Officers•Title Researchers & Examiners•Abstractors• Credit Report Providers•Repossession Agents•Network Services•Operations Managers•Debt Counselors• Claims Agents, Examiners, and Investigators• Claims Clerks•Insurance Appraisers•Underwriters• Actuaries•Sales Agents • Customer Service Agents•Processing Clerks</p>	<p>2D/3D Artist * Animator * Audio/Video Engineer * Designer * Media Specialist * Media/Instructional Designer Author * Authoring Specialist * Developer * Specialist Producer * Production Assistant * Programmer * Streaming Media Specialist * Virtual Reality Specialist Designer * Producer * Specialist Administrator * Architect * Designer * Page Developer * Producer * Site Developer * Webmaster</p>	<p>Administrative Assistant • Executive Assistant • Office Manager • Medical Front Office Assistant • Information Assistant • Desktop Service Assistant • Data Entry Specialists • Receptionist • Communications Equipment Operator • Computer Operator • Court Reporter • Stenographer • Dispatcher • Shipping & Receiving Personnel • Records Processing Occupations including Library Assistant & Order Processor • Word Processor • Typists • Medical Transcriptionist • Legal Secretaries • Paralegals</p>	<p>Administrator * Architect * Management Associate * Modeler * Modeling Specialist Administration Associate * Developer * Manager * Modeler * Security Expert *DSS (Decision Support Services) * Knowledge Architect Database Administrator * Systems Analyst Administrator * Desktop Publisher * Document Specialist * Documentation Specialist * Editor Publications Specialist * Publisher Instructional Designer, Online Publisher Communicator * Publications Manager * Writer Analyst * Call Center Support Representative * Content Manager Liaison * Service Representative * Service Professional * Technician Maintenance * Technician * PC Support Specialist * PC Systems Coordinator * Product Support Engineer * Sales Support Technician * Systems Analyst *Account Manager * Support Engineer * Testing Engineer* Application Integrator * Systems Designer * Systems Manager * E-Business Specialist * Electronic Transactions Implementer * Analyst * Integrator</p>	<p>Communications Analyst * Data Communications Analyst * Information Systems Administrator * Information Systems Operator * Information Technology Engineer Administrator * Analyst * Manager * Operations Analyst * Security Analyst * Transport Administrator</p>
	Foundational Skills							

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*Source: Federal Career Clusters at www.careerclusters.org
 GDOE/Career, Technical and Agricultural Education Division, REV January, 2009

CULINARY ARTS PROGRAM CONCENTRATION - <i>The design, creation, and serving of food.</i> http://www.careervoyages.gov	
Pathway	Culinary Arts http://www.allculinaryschools.com/
*SAMPLE Career Occupations	<ul style="list-style-type: none"> • General Manager • Food & Beverage Manager • Kitchen Manager • Catering & Banquets Manager • Service Manager • Maitre'd • Restaurant Owner • Baker • Brewer • Caterer • Executive Chef • Cook • Pastry & Specialty Chef • Bartender • Restaurant Server • Banquet Server • Cocktail Server • Banquet Set-Up Employee • Bus Person • Kitchen Steward • Counter Server • Wine Steward • Host
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EDUCATION PROGRAM CONCENTRATION- The planning, managing and providing of education and training services, and related learning support services. <http://www.careervovages.gov>

Pathways	Teaching as a Profession	Early Childhood Education
*SAMPLE Career Occupations	<ul style="list-style-type: none"> •Elementary Teachers, Aids •Secondary Teachers, Aids •Special Education Teachers, Aids •College/University Lecturers, Professors •Human Resource Trainers •Physical Trainers •Coaches •Psychologists- Clinical, Developmental, Social •Social Workers •Parent Educators •Counselors •Speech-Language Pathologists and Audiologists •Superintendents, Principals, Administrators •Supervisors and Instructional Coordinators •Education Researchers, Test Measurement Specialists •College Presidents, Deans •Curriculum Developers •Instructional Media Designers 	<ul style="list-style-type: none"> •Child Care Directors •Child Care Workers •Child Life Specialist •Nanny •Early Childhood Teachers and Assistants •Group Workers and Assistants •Preschool, Kindergarten Teachers, Aids •Directors, Childcare Facilities •Assistant Directors, Childcare Facilities •Pre-K Lead Teachers (Certified)
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ENGINEERING & TECHNOLOGY PROGRAM CONCENTRATION- *The planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, and engineering) including laboratory and testing services, and research and development services.*
<http://www.careervoyages.gov>

Pathways	Engineering	Energy System For more information: http://www.getintoenergy.com/skills.asp	Manufacturing	Electronics	Engineering Graphics & Design	Math/Science
SAMPLE Career Occupations	<p>Aerospace Engineer• Aeronautical Engineer• Agricultural Engineer• Agricultural Technician• Application Engineer• Architectural Engineer• Automotive Engineer• Biomedical Engineer• Biotechnology Engineer• Chemical Engineer• Civil Engineer• Communications Engineer• Computer Engineer• Computer Hardware Engineer• Computer Programmer• Computer Science Technician• Computer Software Engineer• Construction Engineer• Consultant• Development Engineer• Drafter• Electrical Engineer• Electrician• Electronics Technician• Energy Transmission Engineer• Environmental Engineer• Facilities Technician• Fire Protection Engineer• Geothermal Engineer• Hazardous Waste Engineer• Hazardous Waste Technician• Human Factors Engineer • Industrial Engineer• Industrial Engineering Technician• Licensing Engineer• Manufacturing Engineer• Manufacturing Technician• Manufacturing Processes Engineer• Marine Engineer• Materials Engineer• Materials Lab & Supply Technician• Mechanical Engineer• Metallurgic Engineer• Mining Engineer• Naval Engineer• Network Technician• Nuclear Engineer• Ocean Engineer• Operations Research Engineer• Packaging Engineer• Packaging Technician• Petroleum Engineer• Pharmaceutical Engineer• Plastics Engineer• Power Systems Engineer• Product Design Engineer• Project Engineer• Project manager• Prototype Engineer• Quality Engineer• Quality Technician• Radio/TV Broadcast Technician• Radiology Engineer• Researcher• Safety Engineer• Software Engineer• Sound Technician• Structural Engineer• Survey Technician• Systems Design Engineer• Technical Sales Manager• Technical Writer• Telecommunications Engineer• Textile Engineer• Transportation Engineer•</p>	<ul style="list-style-type: none"> • Telecommunication Technicians • Equipment, Cable, Line Repairers/Installers • Computer Programmers, and Systems Analysts • Electrician • Boilermaker • Electronics Technician • Power Plant Operator • Electrical, Mechanical, Aeronautical, Geothermal, Chemical Engineers • Electronics Engineering Technician • Engineering Technician • Mining Engineer • Petroleum Engineer • Hazardous Waste Technician • Pipefitters/Pipe layers • Value/Regulator Repairers • Greenpower Marketing • Meteorologist • Windsmiths • Geologist 	<ul style="list-style-type: none"> • Maintenance and Repairer • Sales Representatives • Industrial Engineers • Industrial Machinery Mechanics • Purchasing Agents • Mechanical Engineers • Mobil Heavy Equipment Mechanics • Environmental Scientists and Specialist • Biological Technician • Chemists • Logisticians • Mechanical Drafters • Computer, Automated Teller, and Office Machine Repairers • Environmental Science and Protection Tech • Industrial Engineering Tech • Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic • Medical Equipment Repairers • Commercial and Industrial Designers • Electrical and Electronics Drafters 	<ul style="list-style-type: none"> • Production Worker • Electrical Maintenance • Industrial Electrician • Electronics Technician • Electrical Engineer • Electronics Engineering Technician • Engineering Technician • Refurbish Technician • Electronics Test Technician, Engineering Aide • Failure Analysis Technician (FA Technician) • Field Engineer 	<ul style="list-style-type: none"> • Industrial Engineer • Materials Engineer • Mechanical Drafter • Mechanical Engineer • Electrical Engineer • Environmental Engineer (hydro engineering) • Modeler 	<p>Analytical Chemist Anthropologist* Archeologist* Astronomer* Astrophysicist* Atmospheric scientist* Biologist* Botanist* CAD Operator* Cartographer* Chemist* Communications technologist* Conservation scientist* Cryptographer* Crystallographer* Demographer* Dye chemist* Ecologist* Economist* Electronmicroscopist * Environmental Scientist* Expert systems Scientist* Geneticist* Geologist* Geophysicist* Geoscientist* Herpetologist* Hydrologist* Ichthyologist* Inorganic Chemist* Laboratory Technician * Mammalogist* Marine scientist* Materials Analyst* Materials Scientist* Mathematician *Metallurgist* Meteorologist* Microbial Physiologist* Mycologist* Nano-biologist* Nuclear Chemists* Nuclear Technician* Numerical Analyst* Nutritionist* Oceanographer* Organic Chemist* Ornithologist* Paleontologist* Physicist* Polymer Scientist* Programmer* Protein Scientist* Protozoologist* Quality-control Scientist* Radio Chemist* Research Chemist* Research Technician* Science Teacher * Lab Technician* Scientific visualization / Graphics Expert* Spectroscopist* Statistician* Technical writer* Toxicologist* Zoologist*</p>

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FAMILY & CONSUMER SCIENCES PROGRAM CONCENTRATIONS- *The providing and assisting of individuals, families, and communities in making informed decisions about their well being, relationships and resources to achieve optimal quality of life.* <http://www.careervoyages.gov>

Pathways	Nutrition & Food Science	Consumer Services	Family, Community & Global Leadership	Interior Design
*SAMPLE Career Occupations	<ul style="list-style-type: none"> • Dietitian • Nutritionist • Pediatric Dietitian • Renal Dietitian • Clinical Nutritionist • Dietetic Consultant • Food Service Manager • Private Practice Nutritionist or Dietitian • Management Dietitian • Food Science Researcher • Pharmaceutical or Food Sales 	<ul style="list-style-type: none"> ▪ Consumer Credit Counselors ▪ Consumer Affairs Officers ▪ Consumer Advocates ▪ Certified Financial Planners ▪ Insurance Representatives ▪ Bankers ▪ Real Estate Services Representatives ▪ Financial Advisors ▪ Investment Brokers ▪ Employee Benefits Representatives ▪ Hospital Patient Accounts Representatives ▪ Customer Service Representatives ▪ Consumer Research Department Representatives ▪ Consumer Goods or Services Retailing Representatives ▪ Market Researchers ▪ Account Executives ▪ Sales Consultants ▪ Event Specialists ▪ Inside Sales Representatives ▪ Field Merchandising Representatives ▪ Buyers ▪ Small Business Owners 	<ul style="list-style-type: none"> ▪ Community Service Directors ▪ Adult Day Care Coordinators ▪ Coordinators of Volunteers ▪ Licensed Professional Counselors ▪ Religious Leaders ▪ Directors, Religious Activities/Education Programs ▪ Human Services Workers ▪ Social Services Workers ▪ Vocational Rehabilitation Counselors ▪ Employment Counselors ▪ Career Counselors ▪ Vocational Rehabilitation Service Workers ▪ Leisure Activities Coordinators ▪ Geriatric Service Workers ▪ Adult Day Care Workers ▪ Residential Advisors ▪ Emergency and Relief Workers ▪ Community Housing Service Workers ▪ Social and Human Services Assistants ▪ Clinical and Counseling Psychologists ▪ Industrial-Organizational Psychologists ▪ Sociologists ▪ School Counselors/Psychologists ▪ Substance Abuse and Behavioral Disorder Counselors ▪ Mental Health Counselors ▪ Vocational Rehabilitation Counselors ▪ Career Counselors ▪ Employment Counselors ▪ Residential Advisors ▪ Marriage, Child and Family Counselors 	<ul style="list-style-type: none"> ▪ Interior Designers, Commercial/Residential and Home Furnishings coordinators ▪ Graphic Designers, CAD Technicians, and Fashion Illustrators ▪ Textile Designers

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HEALTHCARE SCIENCE PROGRAM CONCENTRATION- *The planning, managing, and providing of services that promote health, wellness and diagnosis as well as treat injuries and diseases.* <http://www.careervoyages.gov>

Pathways	Therapeutic Services- Nursing	Therapeutic Services- Medical Services	Therapeutic Services- Emergency Services	Health Informatics	Biotechnology Research & Development	Diagnostic Services
*SAMPLE Career Occupations	<ul style="list-style-type: none"> ◆ Anesthesiologist Assistant ◆ Art / Music / Dance Therapist(s) ◆ Athletic Trainer ◆ Audiologist ◆ Certified Nursing Assistant ◆ Chiropractor ◆ Dental Assistant / Hygienist ◆ Dental Lab Technician ◆ Dentist ◆ Dosimetrist ◆ Exercise Physiologist ◆ Home Health Aide ◆ Kinesiotherapist ◆ Licensed Practical Nurse ◆ Massage Therapist ◆ Medical Assistant ◆ Occupational Therapist / Asst ◆ Ophthalmic Medical Personnel ◆ Optometrist ◆ Orthotist/Prosthetist ◆ Physical Therapist / Assistant ◆ Physician (MD/DO) ◆ Physician's Assistant ◆ Psychologist ◆ Recreation Therapist ◆ Registered Nurse ◆ Respiratory Therapist ◆ Surgical Technician ◆ Veterinarian / Vet Tech 	<ul style="list-style-type: none"> ◆ Acupuncturist ◆ Social Worker ◆ Speech Language Pathologist ◆ Mortician ◆ Pharmacist/Pharmacy Tech ◆ Dietician 	<ul style="list-style-type: none"> ◆ EMT ◆ Paramedic 	<ul style="list-style-type: none"> ◆ Admitting Clerk ◆ Applied Researcher ◆ Community Services Specialists ◆ Data Analyst ◆ Epidemiologist ◆ Ethicist ◆ Health Educator ◆ Health Information Coder ◆ Healthcare Administrator ◆ Medical Assistant ◆ Medical Biller/Patient ◆ Medical Information Technologist ◆ Medical Librarian/Cybrarian ◆ Patient Advocates ◆ Public Health Educator ◆ Reimbursement Specialist (HFMA) ◆ Risk Management ◆ Social Worker ◆ Transcriptionist ◆ Unit Coordinator ◆ Utilization Manager 	<ul style="list-style-type: none"> ◆ Biochemist ◆ Bioinformatics Associate ◆ Bioinformatics Scientist ◆ Bioinformatics Specialist ◆ Biomedical Chemist ◆ Biostatistician ◆ Cell Biologist ◆ Clinical Trials Research Associate ◆ Clinical Trials Research Coordinator ◆ Geneticist ◆ Lab Assistant-Genetics ◆ Lab Technician ◆ Microbiologist ◆ Molecular Biologist ◆ Pharmaceutical Scientist ◆ Quality Assurance Technician ◆ Quality Control Technician ◆ Regulatory Affairs Specialist ◆ Research Assistant ◆ Research Associate ◆ Research Scientist ◆ Toxicologist 	<ul style="list-style-type: none"> ◆ Cardiovascular Technologist ◆ Clinical Lab Tech ◆ Computer Tomography (CT) Technologist ◆ Cytogenetic Technologist ◆ Cytotechnologists ◆ Diagnostic Medical Sonographers ◆ Electrocardiographic (ECG) Tech ◆ Electronic Diagnostic (EEG)Technologist ◆ Exercise Physiologist ◆ Geneticist ◆ Histotechnician ◆ Histotechnologist ◆ Magnetic Resonance (MR) Technologist ◆ Mammographer ◆ Medical Technologist / Clinical Laboratory Scientist ◆ Nuclear Medicine Technologist ◆ Nutritionist ◆ Pathologist ◆ Pathology Assistant ◆ Phlebotomist ◆ Positron Emission Tomography (PET) Technologist ◆ Radiologic Technologist/Radiographer ◆ Radiologist

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GOVERNMENT & PUBLIC SAFETY PROGRAM CONCENTRATION- *The execution of governmental functions and the planning, managing and providing of legal, public safety, protective services and homeland security, including professional and technical support services.*

Pathways	Junior ROTC	Homeland Security & Emergency Services	Public Law & Justice
<p>*SAMPLE Career Occupations</p>	<p>U.S. Marines http://www.mcjrotc.org/ U.S. Army https://www.usarmyjrotc.com/ U.S. Air Force http://www.afots.af.mil/afjrotc/index.asp U. S. Navy http://www.usnavy.mil/</p> <p>In all four military branches, the JROTC curriculum promotes and teaches leadership, citizenship, and personal responsibility. These qualities represent necessary behaviors in all aspects of life including the world of work. Students participating in these programs learn valuable skills that can assist them through their educational careers into their life-long learning and civilian or military work.</p> <p>For military occupations, students can go to http://www.todaysmilitary.com/careers</p>	<p>Security Director •Corporate/Agency Security Director• Corporate Director of Sales• Security Systems Designer/Consultant• Physical Security Specialist Consultant• Information Systems Security Specialist• Computer Forensics Specialist• Private/Corporate Investigator• Loss Prevention/Security Manager (e.g. Store, hotel)•Security Trainer/Educator• Security Sales Representative/Manager• Loss Prevention Specialist• Physical Security Assistant• Security Systems Technician (Install/maintain)•Investigative Assistant (private sector)•Security Trainer (Basics)•Security Sales Assistant• Transportation Security Supervisor• Information Security Assistant (Document Control)•Personnel Security Assistant• Executive Protection Officer (Private)• Supervisory Security officer (armed, unarmed)•Certified Security Officer (SPO, POST, Arrest Authority)•Armored Car Guard• Control Center Operator (e.g. ADT) (Monitoring Center)• Uniformed Security Officer (Unarmed -- proprietary and contract)•Security Clerk• Transportation Security Technician• Loss Prevention Assistant• Uniformed Security officer (armed)•Computer Security Specialist• Computer Forensics Examiner• Executive Protection Specialist• Gaming Surveillance Specialist• Information Security specialist• Information Technology Security• Armored Car Guards• Industrial Espionage Security• Ski Patrol,• Physical Property Security• Private Security Specialist Animal Control Officer• Bailiffs• Missing Persons• Unemployment Fraud Investigators• Criminal Investigators & Special Agents• Gaming Investigator• Bomb Technician• Game Enforcement Officer• Highway Patrol Pilots• Immigration & Customs Inspectors• Mgr/Supervisor• Police & Detectives• Police Detectives and Criminal Investigators• Police, Fire & Ambulance Dispatchers• Police & Patrol Officers• Private Detectives & Investigators• Sheriffs & Deputy Sheriffs• Training Officer• Transit & Railroad Police• Park Ranger• Evidence Technician• Federal Marshall</p>	<ul style="list-style-type: none"> • Administrative Law • Attorney • Case Management Specialist • Court Reporter • File and Document Manager • Information Officer • Investigator • Judge • Law Clerk • Legal Assistant • Legal Secretary • Magistrate • Mediator/Arbitrator • Negotiator • Paralegal • Warden • Jail Administrator • Public Information Officer • Correctional Trainer • Case Manager • Community Corrections Practitioner • Probation/ Parole Officer • Corrections Educator• • Corrections Officer • Detention Deputy • Youth Services Worker
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MARKETING, SALES & SERVICES PROGRAM CONCENTRATION – *The planning, managing, and performing of marketing activities to reach organizational objectives.*

Pathways	Marketing & Management	Fashion Marketing	Marketing Communications & Promotion	Travel Marketing & Lodging Management	Sports & Entertainment Marketing
Sample Career Occupations	<p>Entrepreneurs• Small Business Owners• Presidents• Chief Executive Officers• Proprietors• Financial Manager Franchisees• Independent X's (e.g., distributor)• Customer Service Representatives• Management Analyst• Administrative Support Representatives (e.g., human resources, clerical, finance, technical)• Business to Business Salesperson</p>	<p>Store Managers• Retail Marketing Coordinators• Merchandising Managers• Merchandise Buyers• Operations Managers• Visual Merchandise Managers• Sales Managers• Department Managers• Sales Associates• Customer Service Representatives• Clerks• Administrative Support Representatives (e.g., human resources, clerical, finance, technical)• Business to Business Salesperson</p>	<p>Advertising Managers• Public Relations Managers• Public Information Directors• Sales Promotion Managers• Co-op Managers• Trade Show Managers• Circulation Managers• Promotions Managers• Art/Graphics Directors• Creative Directors• Account Executives• Account Supervisors• Sales Representatives• Marketing Associates• Media Buyers/Planners• Interactive Media Specialists• Analysts• Contract Administrators• Copywriters• Research Specialists• Research Assistants• Customer Service Representatives• Administrative Support Representatives (e.g., human resources, clerical, finance, technical)• Business to Business Salesperson</p>	<p>Front Office Manager• Executive Housekeeper• Director of Sales & Marketing• Chief Engineer• Director of Human Resources• Rooms Division Manager• Director of Security• Controller• Food & Beverage Director• Resident Manager• Director of Operations• General Manager• Regional Manager• Quality Assurance Manager• Corporate Management• Lodging Management• Owner/Franchisee Administrative Support• Uniformed Services Support• Communications Supervisor• Front Desk Supervisor• Reservations Supervisor• Laundry Supervisor• Room Supervisor• Bell Captain• Shift Supervisor• Sales Professional• Night Auditor• Front Desk Employee• Valet Attendant• Bell Attendant• Door Attendant• Concierge• PBX Operator• Reservationist• Guestroom Attendant• Public Space Cleaner• Laundry Attendant• House Person• Maintenance Worker• Van Driver Executive Director• Assistant Director• Director of Tourism Development• Director of Membership Development• Director of Communications• Director of Visitor Services• Director of Sales• Director of Marketing and Advertising• Director of Volunteer Services• Director of Convention and Visitors Bureau• Market Development Manager• Group Sales Manager• Events Manager• Sales Manager• Destination Manager• Convention Services Manager• Heritage Tourism Developer• Travel Agent (Commercial & Vacation)• Event Planner• Meeting Planner• Special Events Producer• Nature Tourism Coordinator• Tour and Travel Coordinator• Tourism Marketing Specialist• Transportation Specialist• Welcome Center Supervisor• Visitor Center Counselor• Tourism Assistant• Executive Assistant• Tour Guide• Tour Operator• Motor Coach Operator• Tour and Ticket Reservationist• Interpreter)• Business to Business Salesperson</p>	<p>Club Manager• Club Assistant Manager• Club Instructor• Club Equipment & Facility Maintenance • Club Scheduler• Club Event Planner• Club Membership Developer• Parks & Gardens Director• Parks & Gardens Activity Coordinator• Parks & Gardens Access Management• Parks & Gardens Safety & Security• Parks & Garden Ranger• Resort Trainer• Resort Instructor• Resort Equipment Maintenance• Resort Scheduler• Gaming & Casino Manager• Gaming & Casino Supervisor• Gaming & Casino Dealer• Gaming & Casino Slot Supervisor and Maintenance• Gaming & Casino Security & Safety• Fairs/Festival Event Planner• Fairs/Festival Set up Supervisor• Fairs/Festival Facility Manager• Fairs/Festival Promotional Developer• Theme Parks/Amusement Parks Resale Department Manager• Theme Parks/Amusement Parks Area Retail Manager• Theme Parks/Amusement Parks Area Ride Operations Manager• Theme Parks/Amusement Parks Group Events Manager• Family Centers Manager• Family Centers Equipment Operator/Maintenance• Historical/Cultural/Architectural Ecological Industrial Sites Guides/Ranger• Historical/Cultural/Architectural Ecological Industrial Sites Exhibit Developer• Museums/Zoos/Aquariums Docent• Museum/Zoos/Aquariums Animal Trainer and Handler• Museums/Zoos/Aquariums Exhibit Developer)• Business to Business Salesperson</p>

Foundational Skills

Technical Skills•Academic Foundations•Communications•Problem Solving and Critical Thinking•Information Technology Applications•Systems• Safety, Health and Environment•Leadership and Teamwork•Ethics and Legal Responsibilities•Career Development•Entrepreneurship

*Source: Federal Career Clusters at www.careerclusters.org
GDOE/Career, Technical and Agricultural Education Division, REV January, 2009