
Appendix A. Fields of Degree

Computers and Math

Computer and information systems—general
Computer science
Computer systems analysis
Information sciences
Computer administration management and security
Computer networking and telecommunications
Miscellaneous computer sciences
Mathematics
Applied mathematics
Statistics
Decision science
Miscellaneous mathematics

Biological Sciences

General agriculture
Agriculture production and management
Agricultural economics
Animal sciences
Food science
Plant science and agronomy
Soil science
Miscellaneous agriculture
Environmental science
Forestry
Natural resources management
Biology
Biochemical sciences
Botany
Molecular biology
Ecology
Genetics
Microbiology
Pharmacology
Physiology
Zoology
Epidemiology
Miscellaneous biology

Physical Science

Physical sciences astronomy and astrophysics
Atmospheric sciences and meteorology
Chemistry
Geology and earth science
Geosciences
Oceanography
Physics
Miscellaneous physical sciences

Psychology

Psychology
Educational psychology
Clinical psychology
Counseling psychology
Experimental psychology
Industrial and organizational psychology
Social psychology
Miscellaneous psychology

Social Science

Area ethnic and civilization studies
General social sciences
Economics
Anthropology and archeology
Criminology
Geography
International relations
Political science and government
Sociology
Miscellaneous social sciences
History and philosophy of science and technology

Engineering

General engineering
Aerospace engineering
Biological engineering
Architectural engineering
Biomedical engineering
Chemical engineering
Civil engineering
Computer engineering
Electrical engineering
Engineering mechanics physics and science
Environmental engineering
Geological and geophysical engineering
Industrial and manufacturing engineering
Materials engineering and materials science
Mechanical engineering
Metallurgical engineering
Mining and mineral engineering
Naval architecture and marine engineering nuclear engineering
Petroleum engineering
Operations research
Miscellaneous engineering

Science and Engineering Related

Architecture
Computer programming
Data processing
Computer teacher education
Mathematics teacher education
Science teacher education
Engineering technologies
Engineering and industrial management
Electrical engineering technology
Industrial production technologies
Mechanical engineering related technologies
Miscellaneous engineering technologies
Applied biotechnology
Nuclear and industrial radiology technologies
General medical and health services
Communication disorders sciences and services
Health and medical administrative services
Medical assisting services
Medical technologies technicians
Health and medical preparatory programs
Nursing
Pharmacy pharmaceutical sciences and administration
Treatment therapy professions
Community and public health
Energy and biologically based therapies
Miscellaneous health medical professions

Business

Court reporting
Medical office assistance and administration
General business
Accounting
Actuarial science
Business management and administration
Operations logistics and e-commerce
Business economics
Marketing
Finance
Marketing research
Human resources and personnel management
International business
Hospitality management
Management information systems and statistics
Miscellaneous business

Fields of Degree—Con.

Education

General education
Educational administration and supervision
School student counseling
Elementary education
Physical and health education teaching
Early childhood education
Secondary teacher education
Special needs education
Social science or history teacher education
Teacher education: multiple levels
Language and drama education
Art and music education
Miscellaneous education

Literature

Linguistics and comparative language and literature
French, German, Latin, and other common foreign language studies
Other foreign languages
English language and literature
Composition and speech

Liberal Arts

Liberal arts
Humanities
Philosophy and religious studies
Theology and religious vocations
History
U.S. history

Visual Arts

Fine arts
Drama and theater arts
Music
Visual and performing arts
Commercial art and graphic design
Film video and photographic arts
Art history and criticism
Studio arts
Miscellaneous fine arts

Communications

Communications
Journalism
Mass media
Advertising and public relations
Communication technologies

Note: The following fields of degree were included in totals but are too small to display in the figure.

Multidisciplinary Studies

Intercultural and international studies
Nutrition sciences
Neuroscience
Accounting and computer science
Mathematics and computer science
Cognitive science and biopsychology
Interdisciplinary social sciences
Multidisciplinary or general science

Other Fields

Cosmetology services and culinary arts
Family and consumer sciences
Technology education industrial arts
Pre-law and legal studies
Library science
Military technologies
Physical fitness, parks, recreation, and leisure
Criminal justice and fire protection
Public administration
Public policy
Human services and community organization
Social work
Construction services
Electrical and mechanic repairs and technologies
Precision production
Transportation sciences and technologies

Appendix B. Occupations

Management

Chief executives
General and operations managers
Legislators
Advertising and promotions managers
Marketing and sales managers
Public relations and fundraising managers
Administrative services managers
Computer and information systems managers
Financial managers
Compensation and benefits managers
Human resources managers
Training and development managers
Industrial production managers
Purchasing managers
Transportation, storage, and distribution managers
Farmers, ranchers, and other agricultural managers
Construction managers
Education administrators
Architectural and engineering managers
Food service managers
Funeral service managers
Gaming managers
Lodging managers
Medical and health services managers
Natural sciences managers
Postmasters and mail superintendents
Property, real estate, and community association managers
Social and community service managers
Emergency management directors
Managers, all other

Business and Financial

Agents and business managers of artists, performers, and athletes
Buyers and purchasing agents, farm products
Wholesale and retail buyers, except farm products
Purchasing agents, except wholesale, retail, and farm products
Claims adjusters, appraisers, examiners, and investigators
Compliance officers
Cost estimators
Human resources workers
Compensation, benefits, and job analysis specialists
Training and development specialists
Logisticians
Management analysts
Meeting, convention, and event planners
Fundraisers
Market research analysts and marketing specialists
Business operations specialists, all other
Accountants and auditors
Appraisers and assessors of real estate
Budget analysts
Credit analysts
Financial analysts
Personal financial advisors
Insurance underwriters
Financial examiners
Credit counselors and loan officers
Tax examiners and collectors, and revenue agents
Tax preparers
Financial specialists, all other

Computer and Math

Computer and information research scientists
Computer systems analysts
Information security analysts
Computer programmers
Software developers, applications and systems software
Web developers

Computer and Math—Con.

Computer support specialists
Database administrators
Network and computer systems administrators
Computer network architects
Computer occupations, all other
Actuaries
Mathematicians
Operations research analysts
Statisticians
Miscellaneous mathematical science occupations

Architecture and Engineering

Architects, except naval
Surveyors, cartographers, and photogrammetrists
Aerospace engineers
Agricultural engineers
Biomedical engineers
Chemical engineers
Civil engineers
Computer hardware engineers
Electrical and electronics engineers
Environmental engineers
Industrial engineers, including health and safety
Marine engineers and naval architects
Materials engineers
Mechanical engineers
Mining and geological engineers, including mining safety engineers
Nuclear engineers
Petroleum engineers
Engineers, all other
Drafters
Engineering technicians, except drafters
Surveying and mapping technicians

Science

Agricultural and food scientists
Biological scientists
Conservation scientists and foresters
Medical scientists
Life scientists, all other
Astronomers and physicists
Atmospheric and space scientists
Chemists and materials scientists
Environmental scientists and geoscientists
Physical scientists, all other
Economists
Survey researchers
Psychologists
Sociologists
Urban and regional planners
Miscellaneous social scientists and related workers
Agricultural and food science technicians
Biological technicians
Chemical technicians
Geological and petroleum technicians
Nuclear technicians
Social science research assistants
Miscellaneous life, physical, and social science technicians

Community Service and Legal

Counselors
Social workers
Probation officers and correctional treatment specialists
Social and human service assistants
Miscellaneous community and social service specialists, including health educators and community health workers
Clergy
Directors, religious activities and education

Occupations—Con.

Community Service and Legal—Con.

Religious workers, all other
Lawyers
Judicial law clerks
Judges, magistrates, and other judicial workers
Paralegals and legal assistants
Miscellaneous legal support workers

Education

Postsecondary teachers
Preschool and kindergarten teachers
Elementary and middle school teachers
Secondary school teachers
Special education teachers
Other teachers and instructors
Archivists, curators, and museum technicians
Librarians
Library technicians
Teacher assistants
Other education, training, and library workers

Arts and Media

Artists and related workers
Designers
Actors
Producers and directors
Athletes, coaches, umpires, and related workers
Dancers and choreographers
Musicians, singers, and related workers
Entertainers and performers, sports and related workers, all other
Announcers
News analysts, reporters and correspondents
Public relations specialists
Editors
Technical writers
Writers and authors
Miscellaneous media and communication workers
Broadcast and sound engineering technicians and radio operators
Photographers
Television, video, and motion picture camera operators and editors
Media and communication equipment workers, all other

Healthcare Practitioners and Technicians

Chiropractors
Dentists
Dietitians and nutritionists
Optometrists
Pharmacists
Physicians and surgeons
Physician assistants
Podiatrists
Audiologists
Occupational therapists
Physical therapists
Radiation therapists
Recreational therapists
Respiratory therapists
Speech-language pathologists
Exercise physiologists
Therapists, all other
Veterinarians
Registered nurses
Nurse anesthetists
Nurse midwives
Nurse practitioners
Health diagnosing and treating practitioners, all other
Clinical laboratory technologists and technicians
Dental hygienists
Diagnostic related technologists and technicians

Healthcare Practitioners and Technicians—Con.

Emergency medical technicians and paramedics
Health practitioner support technologists and technicians
Licensed practical and licensed vocational nurses
Medical records and health information technicians
Opticians, dispensing
Miscellaneous health technologists and technicians
Other healthcare practitioners and technical occupations

Service

Nursing, psychiatric, and home health aides
Occupational therapy assistants and aides
Physical therapist assistants and aides
Massage therapists
Dental assistants
Medical assistants
Medical transcriptionists
Pharmacy aides
Veterinary assistants and laboratory animal caretakers
Phlebotomists
Healthcare support workers, all other, including medical equipment preparers
First-line supervisors of correctional officers
First-line supervisors of police and detectives
First-line supervisors of fire fighting and prevention workers
First-line supervisors of protective service workers, all other
Firefighters
Fire inspectors
Bailiffs, correctional officers, and jailers
Detectives and criminal investigators
Fish and game wardens
Parking enforcement workers
Police and sheriff's patrol officers
Transit and railroad police
Animal control workers
Private detectives and investigators
Security guards and gaming surveillance officers
Crossing guards
Transportation security screeners
Lifeguards and other recreational, and all other protective service workers
Chefs and head cooks
First-line supervisors of food preparation and serving workers
Cooks
Food preparation workers
Bartenders
Combined food preparation and serving workers, including fast food
Counter attendants, cafeteria, food concession, and coffee shop
Waiters and waitresses
Food servers, nonrestaurant
Dining room and cafeteria attendants and bartender helpers
Dishwashers
Hosts and hostesses, restaurant, lounge, and coffee shop
Food preparation and serving related workers, all other
First-line supervisors of housekeeping and janitorial workers
First-line supervisors of landscaping, lawn service, and groundskeeping workers
Janitors and building cleaners
Maids and housekeeping cleaners
Pest control workers
Grounds maintenance workers
First-line supervisors of gaming workers
First-line supervisors of personal service workers
Animal trainers
Nonfarm animal caretakers
Gaming services workers
Motion picture projectionists
Ushers, lobby attendants, and ticket takers
Miscellaneous entertainment attendants and related workers

Occupations—Con.

Service—Con.

Embalmers and funeral attendants
Morticians, undertakers, and funeral directors
Barbers
Hairdressers, hairstylists, and cosmetologists
Miscellaneous personal appearance workers
Baggage porters, bellhops, and concierges
Tour and travel guides
Childcare workers
Personal care aides
Recreation and fitness workers
Residential advisors
Personal care and service workers, all other

Sales

First-line supervisors of retail sales workers
First-line supervisors of non-retail sales workers
Cashiers
Counter and rental clerks
Parts salespersons
Retail salespersons
Advertising sales agents
Insurance sales agents
Securities, commodities, and financial services sales agents
Travel agents
Sales representatives, services, all other
Sales representatives, wholesale and manufacturing
Models, demonstrators, and product promoters
Real estate brokers and sales agents
Sales engineers
Telemarketers
Door-to-door sales workers, news and street vendors, and related workers
Sales and related workers, all other

Office Support

First-line supervisors of office and administrative support workers
Switchboard operators, including answering service
Telephone operators
Communications equipment operators, all other
Bill and account collectors
Billing and posting clerks
Bookkeeping, accounting, and auditing clerks
Gaming cage workers
Payroll and timekeeping clerks
Procurement clerks
Tellers
Financial clerks, all other
Brokerage clerks
Correspondence clerks
Court, municipal, and license clerks
Credit authorizers, checkers, and clerks
Customer service representatives
Eligibility interviewers, government programs
File clerks
Hotel, motel, and resort desk clerks
Interviewers, except eligibility and loan
Library assistants, clerical
Loan interviewers and clerks
New accounts clerks
Order clerks
Human resources assistants, except payroll and timekeeping
Receptionists and information clerks
Reservation and transportation ticket agents and travel clerks
Information and record clerks, all other
Cargo and freight agents
Couriers and messengers
Dispatchers
Meter readers, utilities

Office Support—Con.

Postal service clerks
Postal service mail carriers
Postal service mail sorters, processors, and processing machine operators
Production, planning, and expediting clerks
Shipping, receiving, and traffic clerks
Stock clerks and order fillers
Weighers, measurers, checkers, and samplers, recordkeeping
Secretaries and administrative assistants
Computer operators
Data entry keyers
Word processors and typists
Desktop publishers
Insurance claims and policy processing clerks
Mail clerks and mail machine operators, except postal service
Office clerks, general
Office machine operators, except computer
Proofreaders and copy markers
Statistical assistants
Office and administrative support workers, all other

Natural Resources, Construction, and Maintenance

First-line supervisors of farming, fishing, and forestry workers
Agricultural inspectors
Animal breeders
Graders and sorters, agricultural products
Miscellaneous agricultural workers
Fishers and related fishing workers
Hunters and trappers
Forest and conservation workers
Logging workers
First-line supervisors of construction trades and extraction workers
Boilermakers
Brickmasons, blockmasons, and stonemasons
Carpenters
Carpet, floor, and tile installers and finishers
Cement masons, concrete finishers, and terrazzo workers
Construction laborers
Paving, surfacing, and tamping equipment operators
Pile-driver operators
Operating engineers and other construction equipment operators
Drywall installers, ceiling tile installers, and tapers
Electricians
Glaziers
Insulation workers
Painters, construction and maintenance
Paperhangers
Pipelayers, plumbers, pipefitters, and steamfitters
Plasterers and stucco masons
Reinforcing iron and rebar workers
Roofers
Sheet metal workers
Structural iron and steel workers
Solar photovoltaic installers
Helpers, construction trades
Construction and building inspectors
Elevator installers and repairers
Fence erectors
Hazardous materials removal workers
Highway maintenance workers
Rail-track laying and maintenance equipment operators
Septic tank servicers and sewer pipe cleaners
Miscellaneous construction and related workers
Derrick, rotary drill, and service unit operators, oil, gas, and mining
Earth drillers, except oil and gas
Explosives workers, ordnance handling experts, and blasters
Mining machine operators
Roof bolters, mining

Occupations—Con.

Natural Resources, Construction, and Maintenance—Con.

Roustabouts, oil and gas
Helpers—extraction workers
Other extraction workers
First-line supervisors of mechanics, installers, and repairers
Computer, automated teller, and office machine repairers
Radio and telecommunications equipment installers and repairers
Avionics technicians
Electric motor, power tool, and related repairers
Electrical and electronics installers and repairers, transportation equipment
Electrical and electronics repairers, industrial and utility
Electronic equipment installers and repairers, motor vehicles
Electronic home entertainment equipment installers and repairers
Security and fire alarm systems installers
Aircraft mechanics and service technicians
Automotive body and related repairers
Automotive glass installers and repairers
Automotive service technicians and mechanics
Bus and truck mechanics and diesel engine specialists
Heavy vehicle and mobile equipment service technicians and mechanics
Small engine mechanics
Miscellaneous vehicle and mobile equipment mechanics, installers, and repairers
Control and valve installers and repairers
Heating, air conditioning, and refrigeration mechanics and installers
Home appliance repairers
Industrial and refractory machinery mechanics
Maintenance and repair workers, general
Maintenance workers, machinery
Millwrights
Electrical power-line installers and repairers
Telecommunications line installers and repairers
Precision instrument and equipment repairers
Wind turbine service technicians
Coin, vending, and amusement machine servicers and repairers
Commercial divers
Locksmiths and safe repairers
Manufactured building and mobile home installers
Riggers
Signal and track switch repairers
Helpers—installation, maintenance, and repair workers
Other installation, maintenance, and repair workers

Production, Transportation, and Material Moving

First-line supervisors of production and operating workers
Aircraft structure, surfaces, rigging, and systems assemblers
Electrical, electronics, and electromechanical assemblers
Engine and other machine assemblers
Structural metal fabricators and fitters
Miscellaneous assemblers and fabricators
Bakers
Butchers and other meat, poultry, and fish processing workers
Food and tobacco roasting, baking, and drying machine operators and tenders
Food batchmakers
Food cooking machine operators and tenders
Food processing workers, all other
Computer control programmers and operators
Extruding and drawing machine setters, operators, and tenders, metal and plastic
Forging machine setters, operators, and tenders, metal and plastic
Rolling machine setters, operators, and tenders, metal and plastic
Cutting, punching, and press machine setters, operators, and tenders, metal and plastic
Drilling and boring machine tool setters, operators, and tenders, metal and plastic

Production, Transportation, and Material Moving—Con.

Grinding, lapping, polishing, and buffing machine tool setters, operators, and tenders, metal and plastic
Lathe and turning machine tool setters, operators, and tenders, metal and plastic
Milling and planing machine setters, operators, and tenders, metal and plastic
Machinists
Metal furnace operators, tenders, pourers, and casters
Model makers and patternmakers, metal and plastic
Molders and molding machine setters, operators, and tenders, metal and plastic
Multiple machine tool setters, operators, and tenders, metal and plastic
Tool and die makers
Welding, soldering, and brazing workers
Heat treating equipment setters, operators, and tenders, metal and plastic
Layout workers, metal and plastic
Plating and coating machine setters, operators, and tenders, metal and plastic
Tool grinders, filers, and sharpeners
Metal workers and plastic workers, all other
Prepress technicians and workers
Printing press operators
Print binding and finishing workers
Laundry and dry-cleaning workers
Pressers, textile, garment, and related materials
Sewing machine operators
Shoe and leather workers and repairers
Shoe machine operators and tenders
Tailors, dressmakers, and sewers
Textile bleaching and dyeing machine operators and tenders
Textile cutting machine setters, operators, and tenders
Textile knitting and weaving machine setters, operators, and tenders
Textile winding, twisting, and drawing out machine setters, operators, and tenders
Extruding and forming machine setters, operators, and tenders, synthetic and glass fibers
Fabric and apparel patternmakers
Upholsterers
Textile, apparel, and furnishings workers, all other
Cabinetmakers and bench carpenters
Furniture finishers
Model makers and patternmakers, wood
Sawing machine setters, operators, and tenders, wood
Woodworking machine setters, operators, and tenders, except sawing
Woodworkers, all other
Power plant operators, distributors, and dispatchers
Stationary engineers and boiler operators
Water and wastewater treatment plant and system operators
Miscellaneous plant and system operators
Chemical processing machine setters, operators, and tenders
Crushing, grinding, polishing, mixing, and blending workers
Cutting workers
Extruding, forming, pressing, and compacting machine setters, operators, and tenders
Furnace, kiln, oven, drier, and kettle operators and tenders
Inspectors, testers, sorters, samplers, and weighers
Jewelers and precious stone and metal workers
Medical, dental, and ophthalmic laboratory technicians
Packaging and filling machine operators and tenders
Painting workers
Photographic process workers and processing machine operators
Semiconductor processors
Adhesive bonding machine operators and tenders
Cleaning, washing, and metal pickling equipment operators and tenders
Cooling and freezing equipment operators and tenders
Etchers and engravers

Occupations—Con.

Production, Transportation, and Material Moving—Con.

Molders, shapers, and casters, except metal and plastic
Paper goods machine setters, operators, and tenders
Tire builders
Helpers—production workers
Production workers, all other
Supervisors of transportation and material moving workers
Aircraft pilots and flight engineers
Air traffic controllers and airfield operations specialists
Flight attendants
Ambulance drivers and attendants, except emergency medical technicians
Bus drivers
Driver/sales workers and truck drivers
Taxi drivers and chauffeurs
Motor vehicle operators, all other
Locomotive engineers and operators
Railroad brake, signal, and switch operators
Railroad conductors and yardmasters
Subway, streetcar, and other rail transportation workers
Sailors and marine oilers
Ship and boat captains and operators
Ship engineers
Bridge and lock tenders
Parking lot attendants
Automotive and watercraft service attendants
Transportation inspectors

Production, Transportation, and Material Moving—Con.

Transportation attendants, except flight attendants
Other transportation workers
Conveyor operators and tenders
Crane and tower operators
Dredge, excavating, and loading machine operators
Hoist and winch operators
Industrial truck and tractor operators
Cleaners of vehicles and equipment
Laborers and freight, stock, and material movers, hand
Machine feeders and offbearers
Packers and packagers, hand
Pumping station operators
Refuse and recyclable material collectors
Mine shuttle car operators
Tank car, truck, and ship loaders
Material moving workers, all other

Note: The following occupations were included in totals but are too small to display in the figure.

Military Specific Occupations

Military officer special and tactical operations leaders
First-line enlisted military supervisors
Military enlisted tactical operations and air/weapons specialists and crew members
Military, rank not specified
