

## What Are Career Pathways?

Career pathways are broad groups of careers that share similar characteristics and whose employment requirements call for many interests, strengths and competencies.

### Michigan's Career Pathways



#### **Arts & Communications**

Careers in this path are related to humanities and performing, visual, literary and media arts. These include architecture, graphic, interior, and fashion design, writing, film, fine arts, journalism, languages, media advertising and public relations.



#### **Business, Management, Marketing & Technology**

Careers in this path are related to the business environment. These include entrepreneur, sales, marketing, computer/information systems, finance, accounting, personnel, economics, and management.



#### **Engineering/Manufacturing & Industrial Technology**

Careers in this path are related to technologies necessary to design, develop, install and maintain physical systems. These include engineering, manufacturing, construction, service and related technologies.



#### **Health Sciences**

Careers in this path are related to the promotion of health and treatment of disease. These include research, prevention, treatment, and related health technologies.



#### **Human Services**

Careers in this path are related to economic, political, and social systems. These include education, government, law and law enforcement, leisure and recreation, military, religion, child care, social services, and personal services.



#### **Natural Resources and Agriscience**

Careers in this path are related to agriculture, the environment, and natural resources. These include agricultural sciences, earth sciences, environmental sciences, fisheries, forestry, horticulture, and wildlife.

## Arts & Communication

### On-the-Job Training and/or Specialized Training *(CDM Cluster: Arts)*

Engraving Press Operator	Dramatic Reader	Merchandise Displayer
Offset Press Operator	Impersonator	Photographic Process Worker
Phototypesetter Operator	Comedian/Comedienne	Airbrush Painter
Paste-up Artist	Model	Instrumental Musician
Disk Jockey	Dancer	Singer
Painter		

### Community College

Photoengraving Proofer	Freelance Writer	Photojournalist
Screen Printing Machine Operator	Advertising Agent	Sign Language Interpreter
Photoengraver	Interior Designer	Music Director
Scanner Operator	Graphic Designer	Orchestra Conductor
Lithographic Photographer	Illustrator	Arranger
Compositor	Photographer	Cartoonist
Announcer	Decorator	Advertising Copywriter
Sports Announcer	Commercial Artist	Stage Technician

### University

Musician	Interpreter/Translator	Columnist
TV Production Director	Technical Writer	Writer/Author
Journalist	Art Director	Choreographer
Film Maker	Orchestrator	Teacher
Choral Director	Art Historian	Cartographer
Archeologist	Landscape Architect	Newscaster/Correspondent
Archivist & Museum Curator	Archeologist	Copywriter

### Emerging or Fast Growing Occupations

Internet Graphic Artist	Web Designer	Color Stylist-Manufacturing Industry
Digital Artist	Public Relations Specialist	

## Business, Management, Marketing

### On-the-Job Training and/or Specialized Training *(CDM Cluster: Office Operations)*

Engraving Press Operator	Dramatic Reader	Merchandise Displayer
Offset Press Operator	Impersonator	Photographic Process Worker
Phototypesetter Operator	Comedian/Comedienne	Airbrush Painter
Paste-up Artist	Model	Instrumental Musician
Disk Jockey	Dancer	Singer
Painter		

### Community College

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### Emerging or Fast Growing Occupations

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Digital Artist	Public Relations Specialist	

## Engineering & Manufacturing

### On-the-Job Training and/or Specialized Training *(CDM Cluster: Technology/Crafts)*

Assembly Line Worker	Aircraft Mechanic	Building Maintenance Worker
Carpenter	Construction Laborer	Millwright
Small Engine Repairer	Electrician	Alarm Service Technician
Railway Equipment Repairer	Office Machine Repairer	Electromechanical Equipment Assembler
Wholesale Sales Representative	Radio Operator	Household Appliance Installer & Repairer
Telephone Installer & Repairer	Auto Mechanic	Vending Machine Mechanic
Bowling Pin Machine Mechanic	Auto Body Repairer	Climate Control Mechanic
Auto Service Advisor	Manufacturing Painter	Oil & Gas Drilling Production Worker
Truck & Bus Mechanic	Upholsterer	Heavy Equipment Mechanic
Equipment & Vehicle Cleaner	Carpet Installer	Industrial Sewing Machine Operator
Mobile Home Installer & Repairer	Drywall Installer	Electromechanical Equipment Assembler
House & Building Interior Cleaner	Institutional Housekeeper	Floor Layer
Glazier	Insulation Worker	Lather
Plasterer	Roofer	Sheet Metal Worker
Structural Iron Worker	Drafter	Electronic Components Worker
Precision Metal Worker	Furnace Operator	Grinding Machine Operator
Heat Treater	Machine Tool Operator	Machinist
Manufacturing Inspector	Metal Roller & Finisher	Numerical Control Tool Operator
Polisher & Buffer	Tool & Die Maker	Welder
Welding Machine Operator	Cabinet Worker	Furniture & Wood Finisher
Pattern-maker & Model Maker	Sawyer	Woodworking Machine Operator

### Community College

Microcomputer Specialist	Chemical Technician	Biomedical Equipment Repairer
Cad Repairer	Electronics Technician	Mechanical Engineering Technician
Metallurgical Technician	Nuclear Technician	Printer
Robotics Technician	Surveyor	Industrial Designer
Broadcast Technician	Aircraft Pilot/Technician	Laser Technician

### University

Chemical Engineer	Chemist	Electrical/Electronic Engineer
Industrial Engineer	Manufacturing Engineer	Marine Architect
Marine Engineer	Mechanical Engineer	Mining Engineer
Petroleum Engineer	Ceramic Engineer	Plant & Production Manager
Quality Control Engineer	Quality Control Manager	Robotics Engineer
Civil Engineer	Automotive Engineer	Architect

### Emerging or Fast Growing Occupations

Satellite Technician	Database Administrator	Computer Hardware Designer
Middleware Engineer	Computer Engineer	PC & Multimedia Specialist
Design Engineer	Network Administrator or Specialist	

## Health Sciences

### On-the-Job Training and/or Specialized Training *(CDM Cluster: Scientific)*

Animal Caretaker	Dental Assistant	Dietetic Aide
EEG/EKG Technician	Nurse Aide Orderly	Physical & Occupational Therapy Aide
Home Health Aide	Medical Assistant	Nursing Technician
Optometric Assistant	Laboratory Assistant	Hospice Worker/Assistant
Histologist	Admitting Clerk	Medical Records Technician

### Community College

Physical Therapy Assistant	Dental Hygienist	Surgical Technician
Dental Lab Technician	Dialysis Technician	Occupational Therapy Assistant
Pharmacy Assistant	Mortician	Licensed Practical Nurse
Optometric Technician	MRI Technologist	Computer Tomography Scan Technologist
Medical Technologist	Veterinary Technician	Histologic Technician
Medical Records Technician	Administrative Clerk	Emergency Medical Technician
Registered Nurse	Ultrasound Technologist	Respiratory Therapist & Technician

### University

Physical Therapist	Dentist	Surgeon
Hospital Administrator	Medical Scientific	Pharmacist
Music Therapist	Psychologist	Psychiatrist
Nuclear Physicist	Pathologist	Medical Records Administrator
Toxicologist	Veterinarian	Physician
Occupational Therapist	Art Therapist	Speech/Language Pathologist/Audiologist
Medical Physicist	Nurse Practitioner	Nutritionist
Respiratory Therapist		

### Emerging or Fast Growing Occupations

Geneticist, (Animal or Human)	Physician Assistant	Anesthesiologist Assistant
Medical Biotechnologist	Physical Therapist	Electroneurodiagnostic Technologist
Clinical Laboratory & Radiological Technician		

## Human Services

### On-the-Job Training and/or Specialized Training *(CDM Cluster: Social Service)*

Child Care Worker	Author	Commercial Artist
Court Administrator	Halfway House Manager	Legal Assistant
Library Technician & Assistant	Private Investigator	Refuse Collector
Flight Attendant	Religious Worker	Sheriff & Bailiff
Social Service Aide	Teacher Aide	Exercise/Aerobic Instructor
Chef/Cook	Meat Cutter	Food/Beverage Services Personnel
Waiter/Waitress	Postal Clerk	Service Station Attendant
Geriatric Aide	Store Detective	

### Community College

Police Supervisor	Corrections Officer	Substance Abuse Counselor
Driving Instructor	Interior Designer	Compliance/Enforcement Inspector
Interpreter & Translator	Hazardous Waste Tech.	Psychiatric Aide & Technician
Recreation Leader	Truck Driver	Bus Driver
Journalist	Food Service Worker	Police Officer & Detective

### College or University

Administrative Law Judge	Anthropologist	Preschool Teacher
College Administrator	College Instructor	Elementary School Teacher
Employment	Historian	Human Resource Manager & Specialist
Judge	Lawyer	Librarian
Market Research Analyst	Marriage Counselor	Placement Specialist
Psychiatrist	Psychologist	School Administrator
School Counselor	Social Worker	Special Education Teacher
Urban & Regional Planner	Sports Professional	Career/Technical Education Teacher
Substance Abuse Counselor	Clergy	Vocational Rehabilitation Counselor
Athletic Trainer		

### Emerging or Fast Growing Occupations

Teacher	Residential Counselor	Speech-Language Pathologist & Audiologist
Technology Education Teacher	Paralegal	Labor Relations Manager
Fire Fighter/Inspector		

## Natural Resources & Argiscience

### On-the-Job Training and/or Specialized Training *(CDM Cluster: Scientific)*

Animal Caretaker	Farm Worker	Groundskeeper
Logging Worker	Veterinary Assistant	Farm Supervisor
Horticultural Nursery Worker	Pest Controller	Farmer & farm Manager
Food Drier & Roaster	Grain & Feed Miller	Food & Dairy Processing Machine Operator
Cannery Worker	Farm Equipment Operator	Chemical Applicator
Custom Operator	Field Inspector	Agricultural Equipment Sales
Agricultural Chemical Sales	Livestock Herder	Dairy Herder
Turf Grass Manager	Agriculture Crop Sales	Animal Health Product Sales

#### Community College

Forester & Conservationist	Forestry Technician	Ornamental Horticulturist
Chemical Technician	Fish and Game Warden	Tree Surgeon
Water Plant Operator	Weather Observer	

#### University

Landscape Architect	Economist	Cooperative Extension Service Worker
Biological Scientist	Botanist	Compliance/Enforcement Inspector
Geographer	Geologist	Geophysicist
Conservation Officer	Agricultural Engineer	Teacher (Agriscience)
Agronomist	Entomologist	Food Scientist
Ecologist	Hydrologist	Marine Biologist
Meteorologist	Oceanographer	Plant Scientist
Soil Conservationist	Zoologist	Physicist/Astronomer
Life Scientist	Physical Scientist	Forestry Worker

#### Emerging or Fast Growing Occupations

Garden Designer	Bioprocess Engineer	Agribusiness International Specialist
Environmental Public Relations	Hydroponics Technician	Precision Agriculture Technician
Biotechnology Patent Administrator	Sports & Commercial Turf Manager	