



CAREER PLANNING WORKBOOK

EXPLORE CAREERS

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CAREER FIELDS

Career Fields, which are identified in the segmented ring around Foundation Knowledge and Skills on the left, are the organizing structure for the 16 career clusters and 81 pathways. The fields represent the broadest aggregation of careers. Career fields have been identified as:

1. Agriculture, Food, & Natural Resources
2. Arts, Communications & Information Systems
3. Engineering, Manufacturing, & Technology
4. Health Science Technology
5. Human Services
6. Business, Management, & Administration

CAREER CLUSTERS

Career Clusters group occupations and broad industries into a national classification of 16 clusters that are based upon common knowledge and skills. Career clusters include hundreds of occupations that may be grouped into pathways around which educational programs of study can be built.

CAREER PATHWAYS

Career Pathways represent an organization of related occupational areas within a specific career cluster. Each of these pathways has identified knowledge and skills validated by industry from which programs and Programs of Study are developed.

Find the 16 career clusters and their related career pathways in this section on the following pages.





Minnesota Career Fields, Clusters & Pathways

AGRICULTURE, FOOD, AND NATURAL RESOURCES

Agriculture, Food, and Natural Resources

- > Animal Systems
- > Agribusiness Systems
- > Environmental Service Systems
- > Food Products and Processing Systems
- > Natural Resources Systems
- > Plant Systems
- > Power, Structural, and Technical Systems

ARTS, COMMUNICATIONS & INFORMATION SYSTEMS

Audio/Video Technology and Film

- > Journalism and Broadcasting
- > Performing Arts
- > Printing Technology
- > Communications Technology
- > Visual Arts

Information Technology

- > Information Support and Services
- > Network Systems
- > Programming and Software Development
- > Web and Digital Communications

ENGINEERING, MANUFACTURING, & TECHNOLOGY

Architecture and Construction

- > Construction
- > Design/Pre-construction
- > Maintenance/Operations
- > Insurance

ENGINEERING, MANUFACTURING, & TECHNOLOGY (CONTINUED)

Manufacturing

- > Production
- > Manufacturing Production Process Development
- > Maintenance, Installation, and Repair
- > Quality Assurance
- > Logistics and Inventory Control
- > Health, Safety, and Environmental Assurance

Science, Technology, Engineering, and Mathematics

- > Engineering and Technology
- > Science and Mathematics

Energy Systems

Transportation, Distribution, and Logistics

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

HEALTH SCIENCE TECHNOLOGY

Health Science

- > Biotechnology Research and Development
- > Diagnostic Services
- > Support Services
- > Health Informatics
- > Therapeutic Services

Continued on next page





Minnesota Career Fields, Clusters & Pathways (Continued)

HUMAN SERVICES

Education and Training

- > Administration and Administrative Support
- > Professional Support Services
- > Teaching/Training

Government and Public Administration

- > Revenue and Taxation
- > Foreign Service
- > Governance
- > National Security
- > Planning
- > Public Management and Administration
- > Regulation

Human Services

- > Consumer Services
- > Counseling and Mental Health Services
- > Early Childhood Development and Services
- > Family and Community Services
- > Personal Care Services

Law, Public Safety, Corrections, and Security

- > Correction Services
- > Emergency and Fire Management Services
- > Law Enforcement Services
- > Legal Services
- > Security and Protective Services

BUSINESS, MANAGEMENT, AND ADMINISTRATION

Business, Management, and Administration

- > Administrative Support
- > Operations Management
- > Business Information Management
- > Human Resources Management
- > General Management

Finance

- > Banking Services
- > Business Finance
- > Securities and Investment
- > Accounting
- > Insurance

Hospitality and Tourism

- > Lodging
- > Recreation, Amusements and Attractions
- > Restaurants and Food/Beverage Services
- > Travel and Tourism

Marketing

- > Merchandising
- > Marketing Management
- > Marketing Communications
- > Marketing Research
- > Professional Sales

Visit CAREERwise to learn about careers in each career cluster or pathway:

careerwise.minnstate.edu/careers/cluster-pathway.html

SOURCES:

MINNESOTA STATE CAREER AND TECHNICAL EDUCATION,
MINNESOTA DEPARTMENT OF EDUCATION

