

Minnesota Career Fields, Clusters & Pathways

■ Marketing

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

■ Business, Management, and Administration

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

■ Hospitality and Tourism

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

■ Finance

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

■ 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, Audio/Video Technology, and Communications

- > Audio/Video Technology and Film
- > Journalism and Broadcasting
- > Performing Arts
- > Printing Technology
- > Telecommunications
- > Visual Arts

■ Information Technology

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



Minnesota
STATE COLLEGES
& UNIVERSITIES

Minnesota
Department
of Education

Foundation Knowledge and Skills

Academic and Technical Literacy

Employability • Ethics • Systems
Teamwork • Career Development
Problem Solving • Critical Thinking
Information Technology Application
Legal Responsibilities • Communication
Safety, Health and Environment
Social Studies • Math • Science
English • Personal Finance

■ Law, Public Safety, Corrections, and Security

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

■ Human Services

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

■ Government and Public Administration

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

■ Education and Training

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

Health Science Technology

■ Health Science

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

Engineering, Manufacturing, & Technology

■ 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

■ Architecture and Construction

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

■ 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

Additional Resources

www.cte.mnscu.edu/programs/index.html
www.mnpos.com

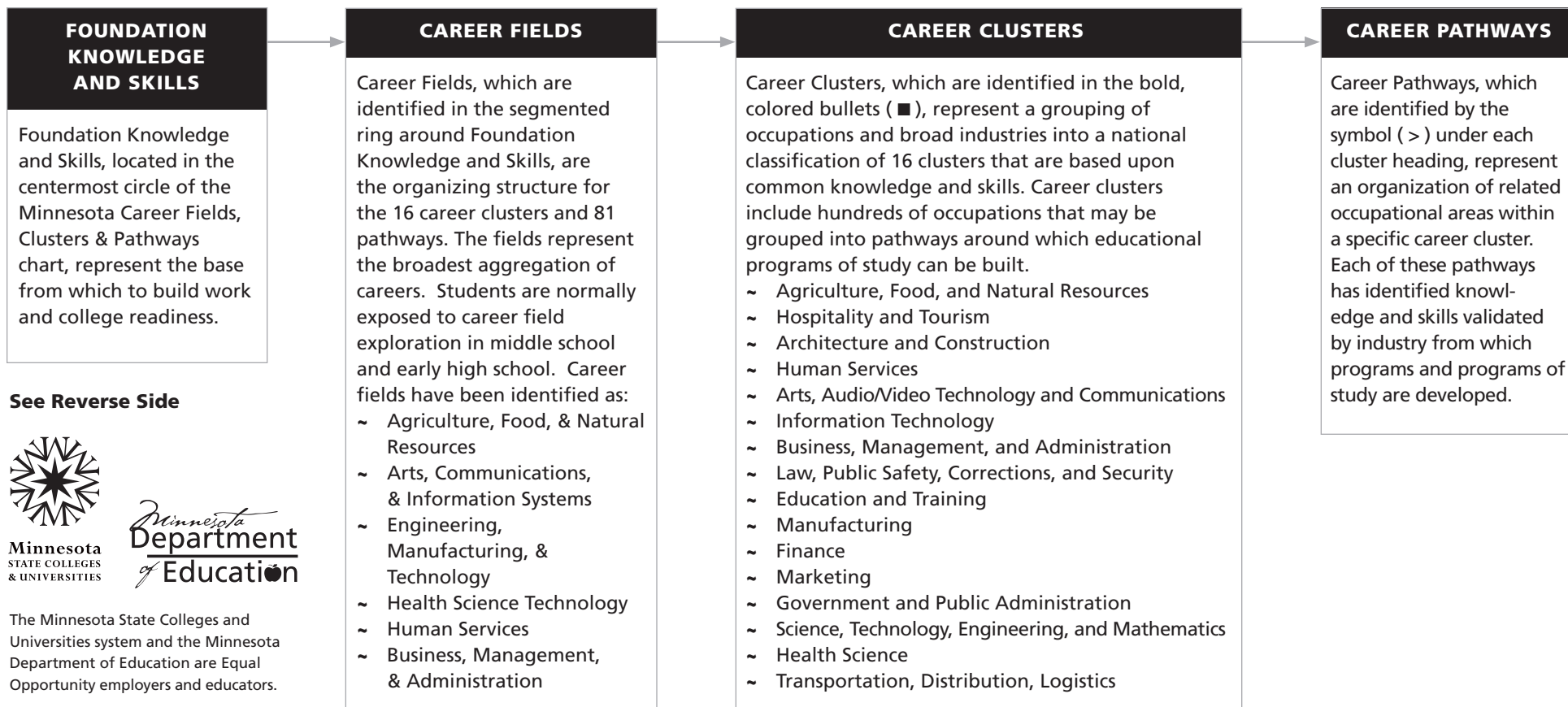
Legend:

■ = Career Cluster

> = Career Pathway

Explanation provided on reverse side.

Minnesota Career Fields, Clusters & Pathways Chart Explanation



Minnesota Programs of Study

The Minnesota Career Fields, Clusters & Pathways chart, on the reverse side, graphically depicts the organizing framework of the foundation knowledge and skills, career fields, career clusters, and career pathways that Minnesota will use for developing programs of study in career and technical education. Once developed, learners at various levels (high school, collegiate, or workforce training level) will then be able to choose from several individual programs within a program of study in order to attain the specific knowledge, skills and abilities needed to pursue a career of their choice.

Programs of study are sets of aligned programs and curricula that begin at the high school level and continue through college and university certificate, diploma and degree programs. The following are some of the key elements that underlie the definition:

- ~ Competency based curricula tied to industry expectations and skill standards;
- ~ Sequential course offerings that provide strategic entry and exit points as needed throughout a lifetime - this leads to manageable "stepping stones" of skill building, high school graduation and postsecondary education completion;

- ~ Flexible course and program formats convenient for learner segments;
- ~ Course portability for seamless progression;
- ~ Multiple entry and exit points to support continuing education, returning adults, and dislocated workers;
- ~ Connections between high school and postsecondary education, skill progression, and career opportunities that align academic credentials with job advancement in high-skill, high-wage or high-demand occupations.