



Career Cluster Framework

What are Career Clusters?

In our economy, there are hundreds of occupations and numerous ways of grouping them. The classification system most commonly used in schools and state agencies is the National Career Clusters Framework. This framework groups occupations into sixteen different clusters based on similarities in foundational knowledge and skills needed to achieve career success. The core academic and technical competencies that define each cluster provide the foundation on which students develop more advanced, industry-specific skills.

Detailed descriptions of the knowledge and skills associated with each cluster can be can be found at: https://careertech.org/career-clusters

The benefit of using the National Career Clusters
Framework is that occupations are grouped on
the basis of shared educational and training
requirements. This allows for a more direct link
to be established between educational practices
and careers. Curriculum and programs of study
can be developed that incorporate foundational
skills that are essential to success in specific fields.
Furthermore, clear pathways can be established
that can guide students in selecting programs of
study that will support their employment goals.



What are Career Pathways?

Within each cluster, pathways have been identified that focus on smaller subsets of related occupations. Career pathways have their own knowledge and skill requirements that support success in occupations aligned with the pathway. Courses and training programs are typically outlined in career pathways that can guide students as they develop and maintain progress toward career goals. While clusters provide a broad picture of foundational skills, pathways can help students focus on specific occupations and develop clear, more informed educational plans.

Career Cluster	Career Pathway	Career Cluster	Career Pathway
Agriculture, Food and Natural Resources	 Agribusiness Systems Animal Systems Environmental Service Systems Food Products & Processing Systems Natural Resources Systems Plant Systems Power, Structural & Technical Systems Architecture & Construction 	Hospitality and Tourism	 Lodging Recreation, Amusements & Attractions Restaurants & Food/Beverage Services Travel & Tourism
Architecture and Construction	ConstructionDesign/Pre-ConstructionMaintenance/Operations	Human Services	 Consumer Services Counseling & Mental Health Services Early Childhood Development & Services Family & Community Services Personal Care Services
Arts, Audio/Video Technology and Communications	 A/V Technology & Film Journalism & Broadcasting Performing Arts Printing Technology Telecommunications Visual Arts 	Information Technology	 Information Support & Services Network Systems Programming & Software Development Web & Digital Communications
Business, Management and Administration	 Administrative Support Business Information Management General Management Human Resources Management Operations Management 	Law, Public Safety, Corrections and Security	 Correction Services Emergency & Fire Management Services Law Enforcement Services Legal Services Security & Protective Services
Education and Training	 Administration & Administrative Support Professional Support Services Teaching/Training 	Manufacturing	 Health, Safety & Environmental Assurance Logistics & Inventory Control Maintenance, Installation & Repair Manufacturing Production Process Development Production Quality Assurance
Finance	 Accounting Banking Services Business Finance Insurance Securities & Investments 	Marketing, Sales and Service	 Marketing Communications Marketing Management Marketing Research Merchandising Professional Sales
Government and Public Administration	 Foreign Service Governance National Security Planning Public Management & Administration Regulation Revenue & Taxation 	Science Technology, Engineering and Mathematics	Engineering & TechnologyScience & Mathematics
Health Science	 Biotechnology Research & Development Diagnostic Services Health Informatics Support Services Therapeutic Services 	Transportation, Distribution and Logistics	Facility & Mobile Equipment Maintenance Health, Safety & Environmental Management Logistics Planning & Management Services Sales & Service Transportation Operations Transportation Systems/Infrastructure Planning, Management & Regulation Warehousing & Distribution Center Operations

Programs of Study

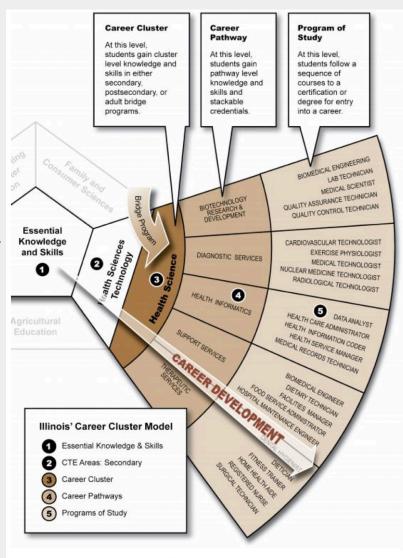
Programs of study are a critical component of career pathways. They provide a more focused and comprehensive outline of courses and trainings that lead to a specific career. Successful completion of a program of study typically results in certification or a degree that provides entry into a field of work. Where career pathways provide insight into various educational options and goals within a career field, programs of study target individual careers and specify the particular courses and trainings, as well as the sequence, needed to meet basic job requirements.

Detailed descriptions of various programs of study can be found <u>here</u>.

How does it all fit together?

The organizational structure of the Career Clusters Framework moves from general to specific. Career clusters are the largest category, where jobs are classified according to foundational level knowledge and skills. Career pathways further delineate occupations within clusters by grouping jobs based on common courses and training programs. Finally, programs of study are more refined components of career pathways that focus on individual careers and specify the particular courses and sequences needed to obtain necessary certificates and/or degrees.

There are several career cluster models and diagrams available that illustrate the organizational structure of the Career Clusters Framework. One model that



Source: Illinois' Career Cluster Model

incorporates the major components of the framework is the Illinois' Career Cluster Model. This model effectively demonstrates the increasing specificity as transitions are made from clusters, to pathways, to programs of study.

Overall, the Career Clusters Framework provides a basis for understanding the fundamental knowledge and skills required for various careers. This can facilitate a more direct alignment between educational program offerings and occupational opportunities.

Helpful Resources

Several online resources are available that provide detailed descriptions of individual career clusters and pathways. Below is a list of government and state guides that can assist in further exploration of career clusters and their use.

Bureau of Labor Statistics https://www.bls.gov/careeroutlook/2015/article/career-clusters.htm

O*NET Browse by Career Cluster https://www.onetonline.org/find/career

North Carolina Career Clusters Guide
https://www.nccareers.org/careerguide/index.html
https://www.nccareers.org/careerguide/print/Career_Clusters_Guide_2018.pdf

Nebraska Career Education Model and Resources https://www.education.ne.gov/nce/career-clusters/

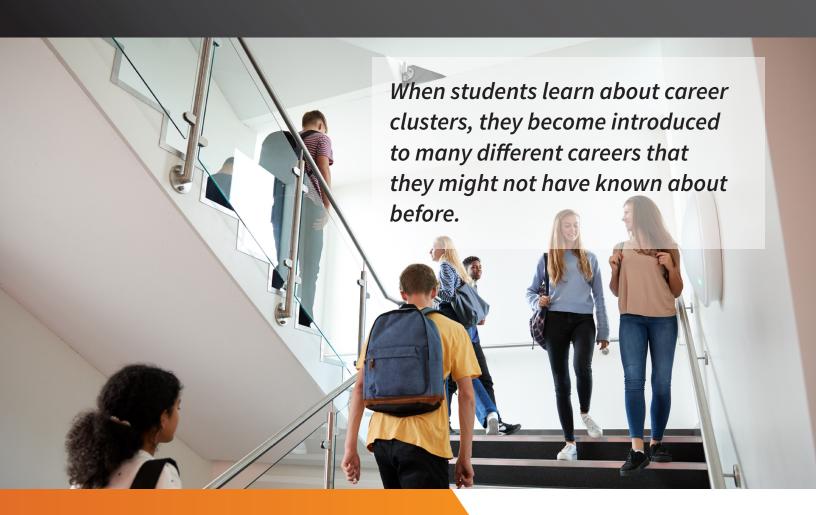
Illinois Career Clusters, Pathways, and Programs of Study Guide https://occrl.illinois.edu/docs/librariesprovider4/prc/career-cluster-guide.pdf?sfvrsn=24b9bc89_6

Minnesota State CAREERwise Education https://careerwise.minnstate.edu/careers/clusters.html



OUR COMMITMENT

Through our commitment to drive results, our partnerships have led us to building comprehensive career and college education solutions. We focus on solutions relevant to education practices and ensure a seamless approach to support career readiness efforts in schools everywhere. Our innovative approach focuses on delivering the best possible solutions to support long-term student success.



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