INFORMATION TECHNOLOGY CAREER CLUSTER DESGIN

Networking and Telecommunications Pathway

CIP CODE 11.0901

APPROVED PATHWAY:

1. Includes a minimum of three secondary-level credits.

2. Includes a work-based element.

3. Consist of a sequence:
   - Introductory-level course.
   - Technical-level course.
   - Application-level course.

4. Supporting documentation includes:
   - Articulation Agreement(s).
   - Certification.
   - Program Improvement Plan.
   - Program of Study.

5. Technical-level and Application-level courses receive 5 state weighted funding in an approved CTE pathway.

INTRODUCTORY LEVEL

Title	Code	Credit
Computing Systems	10002/60002	1
Computer Applications	10004/60004	0.5
IoT Internet of Things	10006/60006	0.5

TECHNICAL LEVEL

Title	Code	Credit
* Foundations of Information Technology	10001	1
Telecommunications	10106	1
Fundamentals of Electricity	41170	1
Digital Electronics	21008	1
GIS Technology	21058	1

APPLICATION LEVEL

Title	Code	Credit
Applied Telecommunications	11049	1
Telecom Workplace Experience	11048	1
Network Systems 1	10112	1
Network Systems 2	10147	1
GIS Spatial Applications	21112	1

CIP DESCRIPTION -A program that focuses on the design, implementation, and management of linked systems of computers, peripherals, and associated software to maximize efficiency and productivity, and that prepares individuals to function as network specialists and managers at various levels. Includes instruction in operating systems and applications; systems design and analysis; networking theory and solutions; types of networks; network management and control; network and flow optimization; security; configuring; and troubleshooting.

* Required course for pathway approval.

In Summary:

The new Networking and Telecommunications pathway merged with the current Networking pathway to support the occupational tasks associated with the Telecommunications sector in addition to the networking specific occupations. This area of industry has been determined to be high-skill, high-wage, and in-demand in Kansas (49-2022). Four new course were created to merge with seven existing courses from the Engineering and Information Technology Clusters.

The following courses are new courses :
- 10006/60006   IoT (Internet of Things)
- 10106   Telecommunications
- 11049   Applied Telecommunications
- 11048   Telecom Workplace Experience

The following courses have been added from the existing Networking Pathway or Engineering Pathway :

- 10002/60002   Computing Systems
- 10004/60004   Computer Applications
- 10001   Foundations of Technology
- 41170   Fundamentals of Electricity
- 21008   Digital Electronics
- 10112   Network Systems 1
- 10147   Network Systems 2