



Career & Technical Education

---



# Business and Industry Partnerships

Presented at the LPSSC Workshop  
April 10, 2015 – Hutchinson Community College



# A Vision for a Partnership

- The Wichita Fire Department is largest in the State of Kansas.
- We are an all-hazards public safety agency.
- Our fire department consist of 430 commissioned and civilian members.
- We operate from 22 Fire Stations
- Serving the 170 square miles of the City of Wichita.



- Demographics (approximately 370,000)
- The City – 75 percent White
- The FD – 88 percent White
- The City – 11 percent Black
- The FD – 4 percent Black
- The City – 10 percent Hispanic
- The FD – 5 percent Hispanic
- The City – 4 percent Asian
- The FD - .2 percent Asian
- The City – 1 percent Native American
- The FD - .1 percent Native American



- **Vision** for the Partnership
- To develop a relationship with Unified School District 259 students that would expose them to the fire service as a possible career choice.
- This was prompted by on-going concerns about diversity in our departments workforce.
- Communities are better served by public safety organizations that understand and reflect the values of the community.



**Outcome** – To make our department more flexible, relevant and better prepared to solve today's and tomorrow's community risk reduction, emergency response and emergency management challenges.



- **Planning** – Find a champion!
- In the fire department
- In the school system





# WICHITA FIRE DEPARTMENT AND USD 259





# Getting Started



Voluntold



Northeast Mentorship program














Educational background



Community Risk Reduction goals



# Getting Organized

-  Development meetings
  -  Goal development within fire department
  -  Objectives development with NEMHS
  -  Certification requirement review
-  Implementation meetings
  -  Curricular development
  -  Staff training
  -  Equipment procurement
-  Kansas State Department of Education
  -  CTE development
    -  Career Clusters



# Resources and Support

- Wichita Fire Department logo NEMHS certified staff and administration
- Wichita Fire Department logo Wichita Fire Department and Station 10
- Wichita Fire Department logo Hutchinson Community College fire science program
- Wichita Fire Department logo National Fire Protection Association, Kansas Fire and Rescue Training Institute
- Wichita Fire Department logo WFD Explorer Post
- Wichita Fire Department logo WFD Division Chief of Training
- Wichita Fire Department logo Ancillary departments












# NEMHS and WFD Station 10

- Neighborhood Fire Station
- Adopted NEMHS FF1 class
- Dedication, Determination, and Desire
- Community Risk Reduction goals
- Good Apple attitudes
- Friends of Education





# Successes

-  Development of KSDE LPSS Career Pathway
-  Expansion to South High, 2 neighboring districts, and other State districts
-  Observer Program
-  NEMHS assists with Fire Prevention Week Activities
-  NEMHS field trips to WFD training schools
-  KSDE modeled from our partnership program
-  Students continuing into college fire science programs





# Challenges and considerations

-  Age appropriate
-  NEMHS relocation
-  Aging Equipment Costs
-  Equipment repair
-  Staff dedication
-  Extended out of service times
-  Training locations
-  Field trip expenses
-  Continuing education
-  IFSAC certification and employment







# Designing a New Pathway

- Creating a state pathway design
- Building an advisory committee
- Looking at curriculum and standards
- Getting the pathway design approved

# Kansas Secondary-Level Career Clusters and Pathways

## Agriculture, Food, and Natural Resources

- Agriculture Science
- Plant Systems
- Power, Structural & Technical Systems

## Arts, A/V Technology, and Communications

- A/V Communications
- Visual Arts

## Information Technology

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

## Science, Technology, Engineering, and Mathematics

- BioChemistry
- BioMedical
- Cartography/Geospatial/Spatial Mathematics
- Engineering & Applied Mathematics

## Manufacturing

- Maintenance
- Production

## Architecture and Construction

- Construction
- Design & Pre-construction

## Transportation, Distribution, and Logistics

- Mobile Equipment Maintenance

## Health Science

- Health Science

## Environmental and Agricultural Systems

## Arts, Communication, and Information

## Industrial, Manufacturing, and Engineering Systems

## Health Science

## Human Resources and Services

## Business, Marketing, and Management

## Education and Training

- Teaching/Training

## Government and Public Administration

- Government & Public Administration

## Human Services

- Consumer Services
- Early Childhood Development & Services
- Family & Community Services

## Law, Public Safety and Security

- Correction, Security, & Law Enforcement Services
- Emergency and Fire Management Services

## Marketing

- Marketing

## Business Management and Administration

- Business Entrepreneurship & Management

## Hospitality and Tourism

- Restaurant & Event Management
- Travel & Tourism

## Finance

- Business Finance

## Foundation Knowledge and Skills

### Academic and Technical Skills

- |                      |                                      |
|----------------------|--------------------------------------|
| • Employability      | • Information Technology Application |
| • Ethics             | • Legal Responsibilities             |
| • Systems            | • Communication                      |
| • Teamwork           | • Safety, Health, and Environment    |
| • Career Development |                                      |
| • Problem Solving    |                                      |
| • Critical Thinking  |                                      |



# Need for LPSS in Kansas?

- Leavenworth Federal Prison
- 9 State Correctional Facilities
- 105 County Sheriff Departments
- 202 City Police Departments
- 15 Highway Patrol Troops (over 540 Officers)
- KBI
- 85 Fire Departments
- 10 University Campus Police Departments
- 3 Military Bases
- State Parks Department
- Private Security Firms
- Over 80 Airports (Several with TSA employees)





# Stakeholders in Development

- Business and Industry
  - Wichita Fire Department
  - Wichita Police Department
  - Kansas Highway Patrol
  - Finney County EMS
  - Kansas Fireline
- Education
  - Wichita Public Schools
  - Garden City Public Schools
  - Garden City Community College
  - Hutchinson Community College
  - Butler Community College



# LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY CAREER CLUSTERS DESIGN

## Emergency & Fire Management Services– CIP Code 43.0299

### Approved Pathway:

- 1) Includes minimum of three secondary-level credits.
- 2) Includes a work-based element.
- 3) Consists of a sequence:  
Introductory-level, Technical-level, and Application-level courses.
- 4) Supporting documentation include Articulation Agreement(s) and a Program of Study.
- 5) Technical-level and Application-level courses receive .5 state-weighted funding in an approved CTE pathway.

### Concentrator Requirement

For a student to be a concentrator, at least 2 of 3 required secondary level credits taken must be a combination of technical and application levels.

### INTRODUCTORY LEVEL

*Introduction to LPSS	44001	.5 credit
History of Emer. Medical Services	44005	.5 credit

### TECHNICAL LEVEL

<input type="checkbox"/> IT in Service Professions	44010	.5 credit	EMT	44060	1 credit
***First Aid/CPR/EMR	44050	.5 credit	**EMT- Bridge	44055	.5 credit
Fire Science I	44100	1 credit			

### APPLICATION LEVEL

**Fire Science II	44101	1 credit
**LPSS Internship	44298	.5 credit
Public Safety Telecommunications	44220	.5 credit

\*Required for pathway approval.

\*\*Has a Pre-requisite course. LPSS Internship (44298) must be preceded by EMT, EMT-Bridge or Fire Science.

\*\*\*First Aid/CPR is included in Fire Science.

☐ Cannot be the only Technical Level course offered in the pathway.

**Boldfaced courses offer professional certifications and require specialized teacher certification.**

**ALL ONE CREDIT COURSES MAY BE TAUGHT AS TWO .5 CREDIT COURSES.**





# Pathway Competencies

- Introduction to LPSS
  - Common intro course for law enforcement, corrections and security, pre-law, emergency and fire management pathways
  - Understanding of type and functions of LPPS agencies and occupations
  - Understanding of basic legal issues
  - HazMat and OSHA general safety certification







# Pathway Competencies

- History of Emergency Medical Services
  - Understanding of development of first emergency medical systems from Napoleon era triage and transport through current EMS systems
  - The role of professional organizations in advancing EMS
  - Legal issues surrounding health and emergency care





# Pathway Competencies

- IT in Service Professions
  - Documentation of observations, information, calls and dispatches
  - Preparation of written reports
  - Software and technology used





# Pathway Competencies

- First Aid/CPR/EMR
  - Protocols followed in emergency management response
  - Awareness of local, state and federal regulations
  - Universal precautions
  - Awareness of symptoms and appropriate treatments
- EMT Bridge
  - Development of skills required of EMTs
- EMT
  - combines both courses above



Career & Technical Education

Requires specialized teacher certification



# Pathway Competencies

- Fire Science 1 and Fire Science 2
  - Takes the first year of the postsecondary program and stretches it out of two years
  - Follows National Fire Protection Association (NFPA) standards
  - Requires specialized teacher certification



# Pathway Competencies

- LPSS Internship
  - Common course for all LPSS pathway strands
- Public Safety Telecommunications
  - Dispatch/911 call center training
  - Requires specialized teacher certification



# Getting the Pathway Approved

- Pathways are first recommended for approval by the Kansas Advisory Committee for CTE (KACCTE), a state-wide advisory committee with representatives from each career cluster area adopted by Kansas
- Representatives of the stakeholders group presented to the KACCTE
- Kansas State Board of Education has final approval







# Expanding the Program

- South High comes on board, partnering with Sedgwick County Fire Department
- New and expanded partnerships needed
- Instructor becomes certified for FF1
- Role of the explorers group
- Successes and Challenges

# Impact and Future Plans

- Progress made on original goals?
- Hosting a regional competition event to promote the program and recognize student skills

# Instructor Certification

- Bachelor of Science in Education with an emphasis Business Education
- National Firefighter 1
- Hazardous Materials Awareness
- Hazardous Materials Operations
- Co-taught with Hutchison Community College during the first year
- Certified during the summer



# Pathway Structure

- LPSS – Freshmen / Sophomore
- EMR – Freshmen – Senior
- Fire fighter 1&2 - Junior / Senior
- EMT – Senior
- Fire and EMT are two 80 minute blocks every other day



# Partnerships: SCFD

- Partnership with SCFD has provided:
- Volunteer opportunities
- Practical applications
  - Stories
  - Department terminology
  - Department protocol
  - Hands on techniques and critiques
- Truck tours
- Guest speakers

# Partnerships: Hutchinson Community College (Fire Fighter 1&2)

- Co-teach during the 1<sup>st</sup> year of fire fighter 1
- Gear – SCBA (air packs)
- Marketing
- Content Structure
- Instructor materials
- College Credit
- Field trips





# Partnerships: Hutchinson Community College (EMT)

- C instructor teaches course
- Provide and schedule lab assistants
- File paperwork for certification
- Provide all gear required to complete class
- Prepare students for State and National Emergency Medical Technician Certification
- College Credit



# Partnerships: Hutchinson Community College

## Instructor

- Supplemental materials for instruction
- Co-taught class during the first year
- Certification / training
- Marketing
- Content structure
- Prop design

## Students

- College credit
- Field trips
- Guest speakers
- Live burn training
- Red card certification
- Post secondary guidance
- EMS ride along



# Wichita Fire Department

- Ride along opportunities
  - Fire Observer
- Guest speakers
- Practical applications
- Instructor supplemental materials

# Conway Springs Volunteer Fire Department

- Out of service fire hose
- Volunteer service for students
- Guest speakers
- Student and instructor training opportunities

# Partnerships Expanded: Gear





# Live Fire Training

































# Supporting Culture

- Building Administration
- Fire Explorers post 881
- Students with FD family

# Challenges

- 83% free and reduced lunch
- 1600 students
- Low Math and Reading scores on National Tests
- Students work to support families
- Students are less career orientated and more job orientated

# Increasing Diversity

## Years 1-3

Male	70%
Female	30%
Hispanic/Latin	14%
Non-Hispanic/Latin	77%

## This Year

Male	50%
Female	42%
Hispanic	8%
African American	8%
Two or More	13%
White	58%
Native American	4%



# Successes

- 1/3 of students are enrolled in a post secondary fire science programs
- 4 students received State and National Emergency Medical Technician Certification

# Successes

- 1 student fought wild land fires this summer
- 1 student has to be hired on FD pending EMT certification
- 2 students involved in local volunteer FD
- 6 students finishing Fire Science Associates Degree this spring









**Steve Schowalter**

Captain, Fire Prevention  
City of Wichita Fire Department  
[sschowalter@wichita.gov](mailto:sschowalter@wichita.gov)

**Jim Means**

Executive Director, CTE  
Wichita Public Schools  
[jmeans2@usd259.net](mailto:jmeans2@usd259.net)



Career & Technical Education

---