FORENSIC SCIENCE IN THE HIGH SCHOOL CLASSROOM

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What is Forensic Science?

• It is CSI in the classroom!
• It is a multidisciplinary course designed to teach inquiry.
• It presents unique opportunities for hands-on, and minds-on activities.
• It is the application of Science to matters of law.
LIFE SCIENCES
- Anatomy: Fingerprints, hair, bones, blood, teeth, saliva, semen
- Botany: Plant identification
- Entomology: Insects
- Serology: Blood, DNA
- Zoology: Animal hair and blood

MATH
- Algebra
- Graphing
- Measurements
- Ratios
- Word problems
- Statistics
- Trigonometry

LANGUAGE ARTS
- Biographies
- Communication: Oral, written
- Fiction and non fiction
- Research skills
- Technical reading skills

CHEMISTRY
- Density
- Fiber analysis
- Fire and explosives
- Inorganic analysis
- Mixtures and separations
- Organic analysis
- Paints
- Toxicology: Drugs and poisons

MISCELLANEOUS
- Cosmetics
- Forgery
- Handwriting
- Paper and ink analysis
- Typewriting
- Tool marks

SOCIAL STUDIES
- Careers
- Constitutional rights
- Criminal justice
- Forensic history
- Law
- Psychology: The criminal mind

PHYSICS
- Ballistics
- Blood spatters and patterns
- Fracture patterns: Bone, glass
- Light
- Refractive index
- Sound: Voice patterns
- Trajectories

EARTH SCIENCES
- Casts and molds
- Mineralogy
- Soil studies

TECHNOLOGY
- Chromatography
- Computers
- Electrophoresis
- Microscopy
- Photography
- Spectroscopy

FORENSIC SCIENCE

PROCESS SKILLS
- Comparative analysis
- Critical thinking
- Deductive reasoning
- Interviewing
- Observation skills
- Organizational skills
- Problem solving
- Study skills
Why teach Forensic Science?

• It provides an alternate science credit.
• It leads to popular college degrees.
• It incorporates career ready practices.
• It fills an unprecedented demand for Forensic science in schools and courtrooms.
• It aligns with the NGSS and provides three dimensional learning.
Why be part of the CTE Pathway?

• It fulfils employer needs that are high skill, high wage and high demand.
• It has scope for Professional development opportunities/ Externships.
• It encourages quality physical environments and instructional strategies.
• It builds Business and Industry partnerships.
What is Career and Technical Education?

- **Fulfills employer needs that are High skill wage demand**
- **Includes high schools, career centers, community and technical colleges, four-year universities and more.**

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**Career Clusters®**

- **Hospitality & Tourism**
- **Science, Technology, Engineering & Mathematics**
- **Law, Public Safety & Security**
- **Agriculture, Food & Natural Resources**
- **Human Services**
- **Transportation, Distribution & Logistics**
- **Manufacturing**
- **Government & Public Administration**
- **Arts, A/V Technology & Communications**
- **Architecture & Construction**
- **Education & Training**
- **Finance**
- **Business, Management & Administration**
- **Information Technology**
- **Marketing, Sales & Service**
- **Health Science**

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- **Integrates with academics in a rigorous and relevant curriculum.**
- **Features high school and postsecondary partnerships, enabling clear pathways to certifications and degrees.**
- **Prepares students to be college- and career-ready by providing core academic skills, employability skills and technical, job-specific skills.**

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**ACTE**

- **94%** Percentage of high school students who are part of CTE, plus millions of postsecondary students.
Training at Forensic Institute
Programs with WSU
Field study with KU
Connecting at KATS Kamp
Assistance from College interns
Partnership with WPD
Rapport with K9 Sheriffs
Volunteer Service at Tanganyika Zoo
Educating the Community
Mentoring Enterprise Elementary kids