

EMPLOYABILITY PROFILE

Forensic Science



Industry Based Skill Standards

Proficiency Definitions

1 = Developing 2 = Basic

	9th	10th	11th	12th	9th 10th 11th	1
History of Forensic Science					Genetics and DNA Analysis	
Understands the scientific, social, and legal de	evelopment	of Forensic	Science.	•	Apply blood type analysis to genetic inheritance patterns. Utilize Polymerase Chain Reaction (tech
Identify organizations responsible for adminis	strating Fore	nsic Invest	gation.		to compare short tandem repeat for DNA Analysis	
Personal and Professional Goal Setting and S	Success				Measurement & Statistical Analysis	
Defines principles that contribute to personal	and profess	sional succe	SS.		Demonstrate the correct techniques for measurement and collecting data use mathematics t	to re
Embody characteristics of a healthy, positive,	and success	ful attitude	2.		physical variables and their relationships, and to make quantitative predictions.	
Effective Communication					Fingerprinting	
Demonstrates effective communication skills	both verbal	ly and in wi	iting. Colla	borates	Identify fingerprinting patterns, subclasses, and minutiae. Compare and analyze evidence. Life	it a
effectively and politely. Understands how to	manage wo	rkplace con	flicts and c	hallenges.	fingerprint from a variety of surfaces using appropriate technique.	
Criminal Justice System (CJS)					Serology & Blood Spatter	
Explains the difference between criminal law	and civil law	. Identify t	ne major pi	llars of CJS.	Identify fingerprinting patterns, subclasses, and minutiae. Compare and analyze evidence. Life	it a
Demonstrates knowledge of how the arrest p	rocess has i	mpact on tl	ne trial prod	cess.	fingerprint from a variety of surfaces using appropriate technique.	
Safety and Protection					Anatomical & Skeletal Analysis	
Understands proper safety protocols in the la	boratory. Ca	an identify	otential sa	fety	Identify the major bones in the human skeleton. Interpret markings and conditions to identify	y se
hazards in the field and explain standard oper	rating proce	dures on a	crime scene	2.	height, health and injury. Identify major body systems.	
Tools and Equipment					Death Investigation	
Evaluate appropriate methods and/or tools for	or collecting	data. use la	boratory to	ools	Complete an autopsy investigation. Determine the cause of death using evidence from an aut	top
connected to computers for observing, measi	uring, record	ding, and pr	ocessing da	ata.	Identify common insects associated with decomposition and diagram their life cycles.	
Crime Scene Investigation					Toolmarks and Ballistics	
Efficiently process a crime scene in a systema	tic, orderly r	method. Co	llect and do	ocument	Explain the individual characteristics of tool marks. Identify characteristics of bullet and cartri	idge
evidence to ensure credibility of the investiga	ition.				Analyze and evaluate various kinds of toolmark and ballistic evidence.	
Photography & Microscopy					Forensic Toxicology and Chemistry	
Operate photography and microscopic equipr	nent to cap	ture eviden	ce at a mac	roscopic	Classify the types of drugs based on the physiological effects on the body. Complete chromat	togra
and microscopic scale. Appropriately handle,	focus and or	perate mac	hinery.		spectroscopic and analytical techniques to identify unknown toxins and substances.	
Research and Inquiry					Forensic Psychology	
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Solve meaningful problems through the pract	ices of engi	neering aes	igii. Conuui	ct an	Locate and identify the major organs of the nervous system. Identify psychological testing pro	

College Credits Attained				
Onondaga Community College CJ 101: Criminal Justice Systems	3 CH			
Syracuse University Project Advance: Forensic Chemistry 113	4 CH			
Onondaga Community College CJ 215: Criminal Law	3 CH			

NA = Not Applicable

Work-Based Learning	Hours		
Agency:			
Agency:			
Agency:			

Inquiry & Research	Year
PSLA/MOST Science Fair	
PSLA/MOST Science Fair	
PSLA/MOST Science Fair	

3 = Proficient

4 = Mastery