

STUDENT COMPETENCIES	Calif. Content Standards	Instructional Hours						Teacher's Verification	
		Planned			Actual			Date	Initial
		C	CC	CVE	C	CC	CVE		
MOD 04 - CRIME LABS		5	15						
*Identify the first crime lab and the equipment used at that time *Describe the scientific method and its use in criminal investigation *Describe the development of crime labs in the U.S. and the reason for their rapid growth *Identify the basic and optional services available at full-service crime labs *Identify the types of forensic analysis performed by LAPD's Scientific Investigation Division	FS (1.0-24.2),1.2(1.a), 4.0(4.1,4.2,4.4,4.5),8.0 (8.1,8.2,8.3,8.4,8.5)10.0 (10.1,10.2,10.3,10.4) 11 PS B3.1, B3.2, B4.1, B4.2,B4.3, B9.6								
MOD 05 - RULES OF EVIDENCE			5						
*Identify the coon judicial heritage of the U.S. and England *Describe the difference between the divine right of kings and the consent of the governed *Identify the Bill of Rights-the first ten amendments to the U.S. constitution *Describe the purpose of the rules of evidence *Explain the adversarial court system of the U.S. *Identify the federal rules of evidence	FS 1.3 (12.1.6,12.2.1, 12.7.7, 12.9.2) 11.0 PS B4.3, B9.1,B9.2, B9.3,B9.4,B9.5,B9.6								
MOD 06 - LATENT PRINT IDENTIFICATION		5	15						
*Define latent print plastic or molded fingerprints *Demonstrate the methods used to discover latent prints *Describe the three general classifications of fingerprint patterns *Identify the specific patterns within each broad category *Identify Galton's details	FS 5.0(5.1,5.2,5.3),9.0 (9.1,9.3),10 (10.1,10.2) 11 PS B1.3, B4.1, B4.2								
MOD 07 - CRIME SCENE INVESTIGATION		5	10						
* Define protocol followed to preserve crime scene evidence *Describe how to document crime scene evidence *Identify protocol necessary to identify, mark, package and secure evidence *Describe how to photograph crime scene evidence *Understand the purpose of crime scene sketches and diagrams	FS 2.4,(2.6),5.0(5.1, 5.2,5.3),10.1,11.2,11.0 PS B4.1,B4.2,B6.1, B6.2,C1.6,C3.2,C7.1, C7.2,C9.2								
MOD 08 - PHOTOGRAPHY		5	10						
*Describe the basic photography equipment kit *Describe the photograph requirements by crime types and indoor/ outdoor *Identify the types of pictures taken at an autopsy *Explain when traditional images may be preferred over digital images	FS 1.2 (1.d) 2.0(2.1), 4.0, (4.1,4.2,4.3,4.5), 5.0, 5.1, 10.0, 10.1, 11.0 PS B1.3, B4.1, B6.1, B8.2								

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MOD 08 - PHOTOGRAPHY....cont'd									
*Explain relevance and authentication of photographic evidence									
MOD 09 - EVIDENCE COLLECTION & PRESERVATION		5	10						
*Define admissibility and credibility of physical evidence and the chain of custody	FS 4.0(4.4),6.0(6.1, 6.2,6.3,6.4),7.0(7.1,7.2								
*Describe the difference between trace, transfer, and at-risk evidence	7.3, 7.4),8.0 (8.1,8.2),								
*Describe the types of evidence collection and preservation equipment	9.1,9.3,11.0 PS B4.3								
*Understand the responsibilities of a police officers and a crime scene technician									
MOD 10 - PROCESSING EVIDENCE		5	10						
*Define processing evidence and describe why evidence processing has come under intense scrutiny	FS 4.0 (4.4), 6.0 (6.1, 6.2,6.3,6.4) 7.0(7.1,								
*Describe the evaluation and processing of physical evidence	7.2, 7.3, 7.4) 8.0 (8.1,								
*Understand the importance of following protocol when handling physical evidence	8.2), 9.1, 9.3,11.0 PS B8.2, B9.4,								
*Demonstrate the steps in processing a suspect or victim	B9.5, B9.6								
*Identify types of casting material used to process footwear impressions									
*Describe the Columbine High School evidence processing and understand the necessity for teamwork, cooperation, and management of major crime scenes									
MOD 11 - ARSON INVESTIGATION		5							
*Define arson, point of origin, fire patterns, ignition devices, accelerants	FS 1.2(1.c),1.2(1.d, 1.g), 2.1, 2.3,3.0,3.4,								
*Describe how fires spread through Type I - Type V buildings	4.0,4.1,4.3,4.5,5.0,5.1								
*Identify the major milestones in the history of fire-fighting	5.2,5.3,6.0,6.1,6.3,								
*Identify the methods and equipment used to detect flammable residues	8.1,10.0,10.3 PS B8.0								
*Describe how to collect and preserve arson evidence									
MOD 12 - FORENSIC ANTHROPOLOGY		5							
*Define forensic anthropology, forensic taphonomy, and forensic archeology	FS 1.2 (1.a, 1.c,1.d, 1.h, 1.i)2.0, 2.2,2.3,2.6,								
*Describe Dr. Dwight's discovery that bones hold clues to person's identify	(a.b.c)4.0(4.1,4.2,4.3, 4.4,4.5),6.2.6.3,6.4,								
*Identify the historical milestones in forensic anthropology	10.3								
*Understand the objectives of a forensic anthropological investigation	PS B1.1,B1.2,B1.3, B1.4,B3.2,B4.3,B8.3								
*Describe the crime scene or burial processing									

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MOD 12 - FORENSIC ANTHROPOLOGY.....cont'd									
*Identify the protocol taken in the collection of anthropological evidence									
MOD 13 - COURTROOM TESTIMONY		5							
*Define types of trials *Describe how a jury is selected *Describe how evidence is presented *Identify the types of evidence-direct, circumstantial, testimonial, real indirect *Describe how a verdict is reached *Understand the importance of having proper courtroom demeanor when testifying	FS 2.2 (a,b,c,d,e,f) PS B1.2, B6.1,B9.2, B9.6,C1.1,C1.2,C1.3, C4.1,C4.2,C7.1,C7.2	*6							
MOD 14 - SPECIAL TOPICS		5							
*Define structural failures, static loads, water dynamic loads, water damage, and chemical attack *Identify primary causes of vehicular accidents, tools used to evaluate accidents *Describe engineering disciplines used in accident reconstruction *Identify the activities of a forensic nurse *Describe the work of a forensic accountant *Understand the importance of investigating financial networks of suspected terrorists	FS 1.2 (1.a), 1.2, (1.e) 1.2 (1.L), 1.1 (24.1),11.0 PS B8.1, B8.2, B8.3, C3.2, C3.3								
MOD 15 - PATHOLOGY		5	10						
*Define pathology and identify who would employ a pathologist *Identify milestones in death investigation/pathology *Describe the duties of a pathologist *Identify the legal issues regarding forensic pathology *Describe the education and training requirements for a pathologist	FS 1.2 (1.2, 1.c, 1.j, 1.l), 2.2 (2.6a,b,c,d), 4.0 (4.1,4.2,4.3,4.4,4.5), 6.1, 6.2, 6.3, 6.4, 10.3 PS B6.1								
MOD 16 - TOXICOLOGY		5							
*Describe the major milestones in the study of poisons *Describe the duties of a toxicologist *Identify the screening processes used on blood, urine, bile, hair *Explain the screening tests: thin-layer and gas chromatography, immunoassay *Identify drugs of abuse and the analytical techniques used to identify toxic substances	FS 1.2 (1.a, 1.c, 1.j,1.l), 2.2(2.6 a,b,c,d,) 4.0 (4.1,4.2,4.3,4.4,4.5), 6.1,6.2,6.3,6.4 PS B6.1								
MOD 17 - QUESTIONED DOCUMENTS		5							
*Define the types of questioned documents and the document studied (legal and other)									

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MOD 17 - QUESTIONED DOCUMENTS.....cont'd									
*Describe the historical milestones regarding questioned documents handwriting analysis *Describe the duties of a forensic document examiner *Identify the tools of the document examiner and the comparison process *Define the types of sample writings used in comparison *Education requirements for document examiners	FS 1.2 (1.L), 2.2,2.3, 2.4(2.1a),C4.5,2.2 (a,b,c,d,e,f), 10.1, 10.3, 10.4, 11.0 PS B1.1, B1.3,B4.1, B4.2, B8.2,C4.1,C4.2								
MOD 18 - SEROLOGY		5							
*Define forensic serology and describe its historical highlights *Define antigens, antibodies, plasma serum, blood typing, immunossay techniques *Describe types of tests used to test whether or not a substance is bloodstains *Explain the typing of dried blood stains *Describe how to preserve blood evidence *Identify the physical evidence collected when a rape has occurred	FS 1.2 (1.a), 4.0 (4.1, 4.2, 4.3,4.4), 10.1, 10.3 PS C3.2,C3.3, C3.6,C7.2								
MOD 19 - BLOODSTAIN PATTERN ANALYSIS		5	5						
*Define point of origin, point of convergence, angle of impact, terminal velocity *Describe the historical figures in bloodstain pattern analysis *List the physical properties of blood *Describe factors that influence the amount and projection of blood spatter *Identify how to determine the point of origin	FS - (1.1)(24.2), 1.2 1.j), 1.2 (1.L), 1.2 (1.e), 1.2 (1.d), 4.0 (4.1, 4.2, 4.3, 4.4) PS - C3.2, C3.3, C3.6, C7.2	*1							
MOD 20 - ODONTOLOGY		5							
*Describe forensic odontology and describe the history of odontology *Identify primary dentition and permanent dentition *Understand the value of postmortem dental identification and the role ante mortem records play *Describe the training and education needed to work as a forensic odontology *Identify why a computerized database of dental records is necessary	FS 1.2 (1.a, 1.d,1.L), 4.4,5.3, PS 2.2 (2.6)								
MOD 21 - POLYGRAPH		5							
*Describe the physiological events measured by the polygraph/ lie detector *Describe the National Academy of Sciences study on the validity	FS 1.2 (1.a), 3.1,3.4,3.5 4.1,4.2,4.3,4.4,4.5,6.4, 10.1,10.3, 10.4								

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MOD 21- POLYGRAPH....cont'd									
of the polygraph *Identify the education and certification necessary to begin a career as a polygraph examiner *Understand that polygraph examination results are not always admissible in court *Describe the use of the PolyScore computer software as tool to analyze the polygraph data	PS A3.1, A3.2								
MOD 22 - TERRORISM & SECURITY		5							
*Define terrorism, explosives, detonate, modus operandi *Identify the important information to be gathered concerning suspected terrorists *List the methods of terrorism *Identify terrorists groups-both U.S. based and international groups *Describe the evidence collection and explosive database creation after first World Trade Center bombing	PS B1.2, B4.1, B4.2, B8.2, B8.11,11.0								
MOD 23 - SERIAL KILLERS		5							
*Define serial murders, categories of modus operandi, signature, characteristics of a serial murder *Determine the difference between mass murder and serial murder *Identify the types of serial murders as identified by the FBI's Crime Classification Manual *Understand the background and behavior of serial killers *Identify several serial killers and the methods used to link them to their crimes *Recognize the importance of routine investigative work in the apprehension of serial killers	FS 1.2 (1.1), 4.0 (4.1, 4.2, 4.3,4.4,4.5),5.1, 5.3 PS - B4.2, B8.1,B8.2 B8.3, C2.1, C2.2,C2.3, C4.1, C4.2,C4.3								
MOD 24 - THE MICROSCOPE		5	5						
*Define the parts of a microscope, field of view, magnifying power, working distance, resolution *Identify the historical milestones regarding the microscope * Describe the types of microscopes used in forensic specimen comparisons *Demonstrate how to prepare wet mount, dry mount, heat fix, simple stain slide presentation	FS - 1.2 (1.a) 11 PS - B4.1, B4.2, C3.2, C3.3, C7.2								
MOD 25 - TRACE EVIDENCE: HAIR, FIBER, & PAINT		5	5						
*Define primary transfer, secondary transfer, hair classification, typing of hair roots *Identify the classifications of hair, racial, sex, human or animal	FS - 1.2 (1.a), 1.2, (1.L), 11 PS - B4.2								

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MOD 25 - TRACE EVIDENCE: HAIR, FIBER, &									
*Describe the microscope types used in trace evidence comparisons *Identify the types of fiber and their origins *Describe the conclusions that can be reached after examining trace evidence *Identify the characteristics of paint and organic coatings on vehicles									
MOD 26 - TRACE EVIDENCE		5	5						
*Define trace evidence, HOHS scale, radial, concentric, cochoidal, known soil sample, control sample, dispersion, refractive index, mass, density, weight *Describe the glass and soil collection process *Describe the types of glass by their chemical composition *Identify soil and its physical properties *Describe the importance of glass and soil evidence as a component of a criminal investigation *Understand the value of glass fractures in determining the direction of impact	FS - 11.0 PS - B4.2								
MOD 27 - PSYCHIATRY		5							
*Understand the meaning of the Tarasoff ruling and the M'Naughten rule *Describe the legal obligations of psychiatrists whose patients threaten to harm others *Define competency, diminished capacity, psychological profiling, insanity, fitness to plead, age of criminal responsibility, legal responsibility *Identify the types of behavioral disorders and the four symptoms of Alcoholism	FS - 1.3 (12.2.3), 11 PS - (A3.1, A3.2, B13, B1.4, B6.1								
MOD 28 - ENTOMOLOGY		5							
*Define entomology and identify its three branches *Describe some highlights of the history of forensic entomology *Define pupa, larvae, molt, arachnids, crustaceans, arthropods, carrion *Understand the importance of insects in death investigations *Describe the stages of decomposition and how to collect and preserve entomological evidence	FS - 1.2 (1.a), 1.2 (1.d)1.2(1.L) PS - B4.2								
MOD 29 - DRUGS		5							
*Define drug abuse, physical and psychological dependence, injection, inhalation, ingestion, dopamine, neurotransmitters									

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MOD 29 - DRUGS...cont'd									
*Identify the types of drugs and their chemical composition *Understand the Controlled Substances Act and explain the specific categories of drugs *Describe how to identify drugs by isolation and separation procedures *Identify chemical and microscopical procedures for identifying drugs	FS - 6.1, 6.3, 8.2, 8.3,8.4,8.5 PS - B4.1, B4.2, B4.3								
MOD 30 - DNA		5	5						
*Describe the value of DNA evidence *Describe how a DNA profile is developed *Define gene, heredity, polymer, nucleotide, DNA bases, double helix, chromosomes, CODIS *Identify the preferred method of collecting DNA evidence at a crime scene *Describe the types of DNA profiling *Understand the importance of DNA profiling not only to law enforcement, but to the innocent	FS - 1.2 (1.a, 1.c, 1.d, 1.j, 1.L) 2.6 (a,b,c,d)4.1, 4.2, 4.4, 4.5, 6.2, 6.3, 6.4 PS - B4.2								
MOD 31 - MOTOR VEHICLE INVESTIGATION		5							
*Define larceny, vehicle identification number, chop shop, special methods of vehicle theft, carjacking, abandoned vehicle, title jumping, vehicle homicide, real property, vehicle damage *Describe a hit and run accident and the methods that may be used to identify the driver *Identify the protocol used when searching a motor vehicle *Describe the use of motor vehicle as explosive devices by terrorists networks *Identify crimes committed with stolen motor vehicles	FS - 1.0 (5.0, 15.0, 24.2, 24.3, 25.1),1.2(1.a, 1.g,1.j,1.L),4.1, 4.2,4.3 4.4,4.5,5.2,5.3,6.3, 10.1,10.3, PS - A5.3, B4.1, B4.2, B8.1, B8.2, C3.6								
MOD 32 - FIREARMS & TOOL MARKS		5	5						
*Define class characteristics, individual characteristics, lands, and grooves of firearms *Describe the different types of handguns, rifles, and semi-automatic and automatic weapons *Describe the types of tools marks and the types of surfaces where tool marks are found *Identify the preferred methods of collecting and preserving tool marks	FS - 2.2 (2.6-b,c), 2.1.c),4.0(4.1,4.2,4.4) 6.0 (6.2, 6.3,6.4), 10.1, 10.3, 11.0 PS - B4.1, B4.2, B9.3, B9.4								
MOD 33 - COMPUTER FORENSICS		5	15						
*Define computer forensics, computer security, top ten security									

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MOD 33 - COMPUTER FORENSICS...cont'd									
exposures *Describe the types of computer crimes (internal, telecommunications, computer manipulation, hardware & software theft and piracy), criminal enterprise administrative support *Describe the protocol for gathering of evidence from computers and related media *Define the types of searches and types of evidence *Describe computer crimes against children	FS - 4.1,4.2, 4.3,4.4, 4.5,5.1,5.2,5.3,6.2,6.3 8.1,8.2,8.3,8.4,8.5, 10.1,10.3,8,4,8.5 10.1,10.3,10.4,11.0 PS - (B8.2) C4.1,C4.2, C4.3								
MOD 34 - CULTURAL DIVERSITY		5							
*Define cultural diversity, norm, belief, practices, values, culture, discrimination, prejudice, stereotype, racism, nationality, immigration, acculturation, assimilation, homogeneous culture, heterogeneous *Understand the challenge of cultural diversity to law enforcement *Understand cultural differences and customs *Describe and explain cultural value dimensions *Describe how crime is culturally defined (gambling, drug use, profiteering)	FS - 9.5, 9.6 PS - (A2.1, A2.2, A2.3, A4.1, A4.2, A4.3, B5.3)								
MOD 35 - EMPLOYMENT SKILLS		5	10						
*Define the strict standards of behavior expected of law enforcement and related professions *Identify employment requirements concerning age, education, citizenship, interpersonal decision making, judgment, discipline, honesty, goal setting, and physical condition *Define the information gathered during a background investigation *Understand the past actions which may disqualify an applicant for law enforcement related work	FS - 3.1, 3.2, 3.5, 3.6, 8.2, 8.3, 8.4, 8.5,10.3,11.0 PS - C3.0 (C3.1, C3.3, C3.4, C3.5), C4.0 (C4.1, C4.2)								
MOD 36 - SEXUAL HARASSMENT		5							
*Define sexual harassment and describe the federal and state laws governing sexual harassment *Describe legal remedies for sexual harassment *Describe how to respond to sexual harassment *Identify the possible penalties for the sexual harassment offender *Describe how to develop and implement an appropriate sexual harassment policy *Identify an employer's responsibilities regarding sexual harassment complaints	FS - 8.1, 8.2, 8.3, 8.4, 8.5 PS - (A.2.1, A2.2, A2.3, B9.1,B9.3,B9.4 B9.5, B9.6, C9.3)								
MOD 37 - REPORT WRITING		5							
*Define reports as they are used by forensic personnel									

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MOD 37- REPORT WRITING...cont'd									
*Write a clear concise, and complete report with attention to detail *Understand the importance of writing an outstanding report after every incident to have a clear recollection of events when called to testify in court	FS - 2.2 (2.3 a, b, c, d, e, f) 2.6 (a, b, c,d) 2.3 (1.1, 1.2) PS-C3.6, C7.1, C7.2								
MOD 38 - IDENTIFY THEFT		5							
*Identify the term Identity theft *Describe how to determine if someone has become a victim of identity theft *Describe the method available to prevent identity theft *Identify additional resources for more information on identity theft	FS - 1.2 (1.L) PS - (B2.3, B3.1, 4.1, B4.2, B8.1, B8.2, B8.3) C4.1, C4.2								
MOD 39 - DOMESTIC VIOLENCE		5							
*Define domestic violence and associated terminology *Define the nature, extent and impact of domestic violence *Define the legal duties of everyone involved in domestic violence *Understand the laws relating to domestic violence *Determine resources for victims and offenders	FS - 8.1, 8.2, 8.3, 8.4, 8.5 PS - (C9.3, A.2.1, A.2.2, A.2.3)								
MOD 40 - CAREER OPTIONS IN FORENSIC SCIENCE		5	15						
*Identify the types of agencies that employ forensic personnel *Describe the specialty fields in forensic science and their job duties and educational requirements *Identify the educational institutions which offer training/education in forensic programs *Understand that public servants are subject to more scrutiny than the average citizen *Understand the character issues which are necessary for the success in the forensic science field and understand the character issues that may prevent one from entering the forensic science field	FS - 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 8.2, 8.3, 8.4, 8.5, 10.3, 11.0 PS - 3.0 (3.1, 3.2, 3.3, 3.4, 3.5, 3.6) 4.0 (4.1, 4.2, 4.3, 4.4, 4.5)								
TOTAL HOURS (*120-144)									

I hereby verify that this student has acquired the competencies as indicated in the actual instructional hours and has demonstrated proficiency equivalent to entry-level employment.

*Required for certificate

C = Classroom
CC = Community Classroom
CVE = Cooperative Vocational Education