2/29/2024 DATE
☑ REQUIRED COURSE
☐ ELECTIVE COURSE

SSE DIVISION
☑ NEW COURSE
☐ REVISION

Lake Land College

Course Information Form

COURSE NUMBER:	CJS-095	TITLE: *(30 Characters Max)*	Crime Scene Reconstruction								
SEM CR HRS:	3	Lecture:	2	Lab:	2				ECH:	4	
Course Level:	☐ Gen Ed/IAI ☐ Baccalaureate/Non-IAI ☑ Career/Technical ☐ Dev Ed/Not in Degree Audit			Clinical Practicum:	0	Work-based Learning	0	WBL ECH:	PER CONTRACT		
COURSE PCS #	12 - 43.0107	IAI Code						Contact Hours (Minutes Per Week)			
Repeatable (Y/N):	N	Pass/Fail (Y/N):	N	Variable Credit (Y/N):	N	Min:		Max:		16 Wks	200	8 Wks	400
Prerequisites:	CJS-093 and CJS-094 and CJS-096										
Catalog Description: (40 Word Limit)	Focuses on the study and application of the scientific method to crime scene reconstruction by using bloodstain pattern analysis and bullet trajectory analysis.										

	List the Major Course Segments (Units)	Contact Lecture Hours	Contact Lab Hours	Clinical Practicum	Work-based Learning
1	Bloodstain Pattern Analysis: Function, Historical Perspective, and Terminology	2	1		
2	Bloodstain Classification	2	3		
3	A Methodology for Bloodstain Pattern Analysis	3			
4	The Medium of Blood	3			
5	Anatomical Considerations in Bloodstain Pattern Analysis	3			
6	Determining Motion and Directionality	1	3		
7	Determining the Point of Convergence and the Area of Origin	1	2		
8	Evaluating Impact Spatter Bloodstains	1	4		
9	Understanding and Applying Characteristic Patterns of Blood	1	2		
10	Bloodstained Clothing Issues	1	4		
11	Presumptive Testing and Enhancement of Blood	1	4		
12	Documenting Bloodstains	1	4		
13	An Introduction to Crime Scene Reconstruction and Analysis	2	1		
14	Presenting Evidence	3	1		
15	Experimentation in Bloodstain Pattern Analysis	2	1		
16	Dealing with the Risk of Bloodborne Pathogens	3			
	TOTAL	30	30	0	0

EVALUATION							
QUIZZES	☑	EXAMS	☐	ORAL PRES	☐	PAPERS	☑
LAB WORK	☑	PROJECTS	☐	COMP FINAL	☐	OTHER	☐

COURSE MATERIALS		
TITLE:	Bloodstain Pattern Analysis with an Introduction to Crime Scene Reconstruction	
AUTHOR:	Tom Bevel and Ross M. Gardner	
PUBLISHER:	CRC Press	
VOLUME/EDITION/URL:	3rd Edition	
COPYRIGHT DATE:	2008	

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES
		The student will be able to:
Bloodstain Pattern Analysis: Function, Historical Perspective, and Terminology	3	Explain the history of bloodstain pattern analysis Understand the function of bloodstain pattern analysis Define key terminology
Bloodstain Classification	5	Classify bloodstains by using a taxonomic classification system, decision map, and specific criteria
A Methodology for Bloodstain Pattern Analysis	3	Understand and apply the scientific method to crime scene Know what to look for in a crime scene Identify discrete patterns Classify patterns Evaluate aspects of directionality and motion for the pattern Evaluate the point of convergence and area of origin Evaluate interrationships among patterns and other evidence Evaluate viable source events in an effort to explain the pattern Define a best explanation given the data Apply the methodology in different events (active scenes, released scenes, and cold case scenes)

The Medium of Blood	3	Explain spatter droplet dynamics Compare spatter drop dynamics on impact Compare blood behavior when exposed to different mechanisms
Anatomical Considerations in Bloodstain Pattern Analysis	3	Understand blood cells, plasma, coagulation, hemostasis, the circulatory system and shock List non-traumatic causes of bleeding Compare traumatic pathology from firearm injuries, sharp force injuries, and blunt injuries
Determining Motion and Directionality	4	Recognize blood trail motion Determine motion from wipes and swipes Determine directionality
Determining the Point of Convergence and the Area of Origin	3	Identify well-formed stains in the pattern Identify point of convergence for the pattern Identify impact angles for the stains Measure stains Combine information to establish an area of origin
Evaluating Impact Spatter Bloodstains	5	Determine velocity of impact Explain the concept of preponderant stain size
Understanding and Applying Characteristic Patterns of Blood	3	Distinguish characteristic patterns of blood Apply characteristic patterns of blood
Bloodstained Clothing Issues	5	Apply good clothing documentation procedures Distinguish contact from spatter on fabric Analyze issues with bloodstained fabric
Presumptive Testing and Enhancement of Blood	5	Interpret presumptive tests Compare reagents Search for and enhance latent blood
Documenting Bloodstains	5	Explain the function of documentation Understand collection procedures Photograph bloodstain patterns and scene Create scene and pattern sketches Write objective scene reports
An Introduction to Crime Scene Reconstruction and Analysis	3	Evaluate theory and principles of crime scene analysis (Locard's Principle of Exchange, Nicolas Steno's Principle of Superposition, Nicolas Steno's Principle of Lateral Continuity, and Chronology) Use event analysis to define a specific context for reconstruction
Presenting Evidence	4	Illustrate the nature and content of Daubert or similar challenges by being prepared to answer questions regarding their expertise in the area Explain the role of an analyst in court proceedings
Experimentation in Bloodstain Pattern Analysis	3	Conduct expertiments to test an event or set of events as a source of the questioned pattern Recognize the pitfalls to experimentation and reconstruction attempts
Dealing with the Risk of Bloodborne Pathogens	3	Outline the risks of bloodborne pathogens Demonstrate proper packaging of biohazard evidence
	60	

COURSE OUTCOMES*	At the successful completion of this course, students will be able to:
Demonstrate specialized crime scene investigation skills including BPA and BTA	
Reconstruct crime scenes	
Classify bloodstains	
Use the scientific method to define the best explanation for a crime scene	

** Course Outcomes will be used in the Assessment Software for Outcomes Assessment. Limit to 3 - 5.*