Course Outline

COURSE: JLE 164  DIVISION: 50  ALSO LISTED AS:

TERM EFFECTIVE: Fall 2013  CURRICULUM APPROVAL DATE: 10/14/2013

SHORT TITLE: CRIME SCENE INVESTIGATION

LONG TITLE: Crime Scene Investigation

<table>
<thead>
<tr>
<th>Units</th>
<th>Number of Weeks</th>
<th>Type</th>
<th>Contact Hours/Week</th>
<th>Total Contact Hours</th>
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<td>Lecture:</td>
<td>.45</td>
<td>8.1</td>
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<td></td>
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<td>Lab:</td>
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<td>31.86</td>
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<td>Other:</td>
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COURSE DESCRIPTION:

This course is designed for students who desire an introduction to the basic tasks and responsibilities of an Evidence Technician. Students will be provided with the basic knowledge and skills needed to identify, process, collect and preserve various types of physical evidence. This is a pass/no pass course.

PREREQUISITE: POST Basic Certificate or Equivalent.

PREREQUISITES:

COREQUISITES:

CREDIT STATUS: D - Credit - Degree Applicable

GRADING MODES

P - Pass/No Pass

REPEATABILITY: N - Course may not be repeated

SCHEDULE TYPES:

02 - Lecture and/or discussion
03 - Lecture/Laboratory
04 - Laboratory/Studio/Activity

STUDENT LEARNING OUTCOMES:

1. Identify and recognize physical evidence

Measure: Exam, performance
2. Identify what equipment is needed at the crime scene.
Measure: demonstrate
PLO:
ILO: 2.3.7
GE-LO:
Year assessed or anticipated year of assessment: 2013

3. Develop the skills to operate the crime scene cameras and related equipment.
Measure: skills demonstration
PLO:
ILO: 2.7
GE-LO:
Year assessed or anticipated year of assessment:

4. Develop skills to collect footwear, tire track evidence and collect latent fingerprint impressions.
Measure: Skills demonstration
PLO:
ILO: 3.7
GE-LO:
Year assessed or anticipated year of assessment:

5. Collect DNA and biological evidence and properly submit it to the lab.
Measure: skills demonstration
PLO:
ILO: 3.7.2
GE-LO:
Year assessed or anticipated year of assessment:

CONTENT, STUDENT PERFORMANCE OBJECTIVES, OUT-OF-CLASS ASSIGNMENTS
Curriculum Approval Date: 10/14/2013
1 Hour

I. INTRODUCTORY REMARKS, INSTRUCTOR INTRODUCTIONS, AND COURSE OVERVIEW
STUDENT PERFORMANCE OBJECTIVES (SPO): none
OUT-OF-CLASS ASSIGNMENTS: none
1 Hour

II. ADMINISTRATION OF PRE-TEST
SPO: The student will be able to describe the items needed in a crime scene processing kit.
OUT-OF-CLASS ASSIGNMENTS: none
1.5 Hours
III. CRIME SCENE MANAGEMENT
   A. Pre-Event Planning & Preparation Considerations
   B. Operational Aspects of Crime Scene Management
SPO: The student will analyze and describe a crime scene and list items of possible evidentiary value.
OUT-OF-CLASS ASSIGNMENTS: reading manual
1.5 Hours

IV. CRIME SCENE DOCUMENTATION & ADMINISTRATION OF LABORATORY
   EVIDENCE SUBMISSIONS
   A. Preparing Crime Scene Documentation
   B. Photographic Documentation
   C. Additional Case Documentation
   D. Documentation of Crime Laboratory Submissions
SPO: The student will describe how physical evidence can connect the suspect to the crime scene and how various sections of a crime lab analyze those pieces of evidence. Types of evidence reviewed will include firearms and ballistics, blood/DNA, hair & fibers, latent fingerprints, footwear, and handwriting.
OUT-OF-CLASS ASSIGNMENTS: reading manual
4 Hours

V. CRIME SCENE PHOTOGRAPHY
   A. Camera – (Film and Digital) Selection and Use
   B. Film - Selection and Use
   C. General Basic Principles of Photography
   D. Videotaping of Crime Scenes
   E. General Crime Scene Photography
   F. Photography of Vehicles
   G. General Autopsy Photographic Considerations
SPO: The student will discuss the importance of crime scene photography and describe how it is used to create a permanent record, aid in the reconstruction of the scene, assist with follow up and refreshing investigator’s memory.
OUT-OF-CLASS ASSIGNMENTS: practice with camera using new techniques
4 Hours

VI. ASPECTS OF SCENE DIAGRAMMING / SKETCHING
   A. Techniques for Sketching
   B. Essential Equipment
   C. Integration of Diagrams and Other Scene Documentation
   D. Categories of Diagrams with Essential Elements
   E. Measurement Techniques
   F. The Digital Future: Computers and the Total Station
SPO: The student will describe how to document the crime scene using logs, photography, sketches and notes. Using proper search methods to look for evidence and demonstrate how to use both the triangulation and baseline methods to measure evidence placement.
OUT-OF-CLASS ASSIGNMENTS: practice sketching
4 Hours

VII. FINGERPRINT IDENTIFICATION
   A. Background and Importance
   B. Introduction to Pattern Recognition
   C. Introduction to Fingerprint Comparisons
   D. Discussion of AFIS Fingerprint Technology
   E. Major Case & Elimination Fingerprints and Palm Prints
SPO: The student will list the two most important reasons fingerprints are used for positive identification, the two types of surfaces on which fingerprints can be developed and which are best processed with chemicals instead of using fingerprint powders.

OUT-OF-CLASS ASSIGNMENTS: reading manual
4 Hours

VIII. LATENT FINGERPRINT DEVELOPMENT TECHNIQUES
A. Illustration of Importance and Uses
B. Equipment
C. Latent Impression Development Depends on Surface Type
D. Cyanoacrylate Ester (CAE) (Super Glue) Techniques
E. Importance & Techniques of Latent Print Photography (Film & Digital)
F. Latent Print Lifting Techniques
G. Using Forensic Light Sources
H. Latent Print Documentation

SPO: The student will demonstrate the proper use of conventional fingerprint powder, the application of lift tape and mounting of the recovered latent impression on a lift card. Explain why photography is needed after impressions are developed using chemicals.

OUT-OF-CLASS ASSIGNMENTS: practice fingerprinting
4 Hours

IX. TECHNIQUES FOR COLLECTION/PRESERVATION OF DNA, BLOOD & BIOLOGICAL FLUID EVIDENCE
A. Capabilities & Limitations of Laboratory Analyses of DNA / Biological Fluid
B. Safety Issues & Infectious Diseases Considerations
C. Collection/Preservation of Biological / DNA Evidence
D. Visualization Techniques for Detecting Invisible Blood Stains
E. Introduction to Blood Spatter Analysis
F. Evidence Packaging & Special Laboratory Submission Considerations

SPO: Students will be able to recognize possible sources of DNA evidence and determine where to collect the DNA sample from an item. They will also perform the steps in proper collection of both a dry and wet DNA sample. Students will state the safety procedures and equipment used when working around biological evidence.

OUT-OF-CLASS ASSIGNMENTS: reading manual
1 Hours

X. TECHNIQUES FOR COLLECTION/PRESERVATION OF HAIR & FIBER EVIDENCE
A. Capabilities/Limitations of Laboratory Analyses
B. Collection/Preservation of Questioned Samples
C. Practical Techniques for Collection of Known Samples
D. Hair & Fiber Evidence Packaging Procedures

SPO: Students will discuss clothing and fabric evidence. Students will demonstrate how to locate, collect and package this evidence. Students will participate in collecting hair and fiber samples using lift tape method and proper documentation.

OUT-OF-CLASS ASSIGNMENTS: practice evidence collection
1 Hours

XI. TECHNIQUES FOR COLLECTION/PRESERVATION OF TRACE & MINERALOGIC EVIDENCE
A. Capabilities and Limitations of Laboratory Analyses
B. Collection and Preservation of Questioned Evidence
C. Techniques for Obtaining Known Samples
D. Packaging of Evidence.
SPO: Students will recognize and discuss possible sources of trace evidence at a described crime scene. Students will also demonstrate the steps in the collection of gunshot residue and the collection of paint transfer samples.

OUT-OF-CLASS ASSIGNMENTS: reading manual
2 Hours

XII. PRACTICAL TECHNIQUES FOR COLLECTION/PRESERVATION OF FIREARMS EVIDENCE
A. Capabilities/Limitations of Laboratory Analyses
B. Safety Considerations
C. Collection & Preservation of Evidence
D. Evidence Packaging - Considerations for Laboratory Submissions
E. Gunshot Residue Evidence
F. Discussion of Scene Reconstruction Techniques
G. Introduction to Bullet Trajectory Analysis
SPO: Students will describe impression evidence related to firearms and ammunition, specifically markings on the casings and bullets.

OUT-OF-CLASS ASSIGNMENTS: reading manual
4 Hours

XIII. TECHNIQUES TO LOCATE AND COLLECT SHOE, TIRE AND OTHER IMPRESSION EVIDENCE:
A. Shoe Print Impressions
B. Tire Impressions
C. Tool Mark Impressions
D. Packaging of Evidence
E. Scene Interpretation
SPO: The student will demonstrate, mix and explain the steps using casting material to recover either footwear or tire impression evidence.

OUT-OF-CLASS ASSIGNMENTS: reading manual
2 Hours

XIV. TECHNIQUES FOR COLLECTION & PRESERVATION OF DOCUMENT EVIDENCE
A. Capabilities/Limitations of Laboratory Analyses
B. Evaluation/Collection of Questioned Documents
C. Acquisition of Comparison Samples
D. Evidence Packaging
E. Special Laboratory Service
F. Cyber Evidence: Computers, Digital and Electronic Devices
SPO: Students will demonstrate the above techniques and processes

OUT-OF-CLASS ASSIGNMENTS: practice techniques
2 Hours

XV. CRIME SCENE SAFETY CONSIDERATIONS
A. Crime scene biological and chemical hazards.
B. Routes of exposure and methods of personal protection.
C. Methods of decontamination
SPO: The student will apply their knowledge, and demonstrate concern for personal safety and the safety of others in processing a crime scene.

OUT-OF-CLASS ASSIGNMENTS: reading manual
2 Hours

XVI. PRESENTING EVIDENCE IN A COURT OF LAW
A. Elements of an effective CSI witness
B. Pre-trial conferences
C. Judicial proceedings
D. Verbal and non-verbal communication
E. Tactics of a defense attorney

SPO: Students will participate in a Mock Crime Scene Field Exercise of a major case practicum. They will practice and apply techniques and processes learned.

OUT-OF-CLASS ASSIGNMENTS: reading manual
1 Hour
Final

METHODS OF INSTRUCTION:
Lecture, discussion, demonstration, and hands-on practical applications/exercises. PowerPoint presentations, video instruction, reference material with essential crime scene equipment and expendable supplies. Additional teaching aids will include junked vehicles, breakout rooms for practical exercises and mock crime scenes setups, and mock evidence used for courtroom exercises.

METHODS OF EVALUATION:
CATEGORY 1 - The types of writing assignments required:
Percent range of total grade: 0 %
If this is a degree applicable course, but substantial writing assignments are NOT appropriate, indicate reason:
Course primarily involves skill demonstration or problem solving
CATEGORY 2 - The problem-solving assignments required:
Percent range of total grade: 45 % to 55 %
Other: role play and demonstrations
CATEGORY 3 - The types of skill demonstrations required:
Percent range of total grade: 45 % to 50 %
Class Performance/s
Field Work
Performance Exams
CATEGORY 4 - The types of objective examinations used in the course:
Percent range of total grade: 10 % to 15
Completion

REPRESENTATIVE TEXTBOOKS:
n/a

ARTICULATION and CERTIFICATE INFORMATION
Associate Degree:
CSU GE:
IGETC:
CSU TRANSFER:
Transferable CSU, effective 201070
UC TRANSFER:
Not Transferable
SUPPLEMENTAL DATA:
Basic Skills: N
Classification: I
Noncredit Category: Y
Cooperative Education:
Program Status: 2 Stand-alone
Special Class Status: N
CAN:
CAN Sequence:
CSU Crosswalk Course Department: JLE
CSU Crosswalk Course Number: 164
Prior to College Level: Y
Non Credit Enhanced Funding: N
Funding Agency Code: Y
In-Service: N
Occupational Course: C
Maximum Hours: 1
Minimum Hours: 1
Course Control Number: CCC000523130
Sports/Physical Education Course: N
Taxonomy of Program: 210500