**Forensics Crime Scene: Final Exam Study Guide**



**Fall 2014**

Your final will consist of 2 sections:

1. Short Answer
2. Multiple Choice

You will be allowed to bring a “cheat sheet” to the exam:

a handwritten 3 x 5inch index card with you to the exam.

Topics on the Exam:

1. Intro. To Forensics

* What is forensics?
* Applications of forensics
* Careers in forensics

1. Evidence
   * Types of evidence
   * Locard’s Exchange Principle
   * Types of evidence in law enforcement
2. Crime Scene
   * Search warrants
   * Primary versus secondary crime scenes
   * Procedures for searching a crime scene
   * Methods of searching for evidence at a crime scene
   * Procedures for documenting or recording a crime scene
   * Procedures for collecting evidence including a chain of custody
3. Trace Evidence
   * Types of trace evidence
   * Individual vs. class trace evidence
   * Hair- parts, identification of human vs. animal, matching known and unknown samples, value as evidence
   * Fibers- natural vs. synthetic, value as evidence
4. Fingerprints
   * Types of prints in humans that are individualized
   * 3 major types of fingerprint classification (loop, etc.)
   * 3 major types of fingerprints found (latent, etc.)
   * Procedures used for fingerprint identification
   * Procedures for developing latent fingerprints on various surfaces
5. Blood
   * Components of blood
   * Procedure for identifying blood type
   * Procedure used to determine if an unknown substance is blood
   * Procedure used to visualize invisible blood stains

**To prepare for the Short Answer questions:**

This section will consist of a crime scene scenario where you will have to apply the concepts, techniques, and tests that we have covered this semester to help preserve the crime scene, document and collect evidence and analyze the evidence. You need to go back through all of your notes and most importantly your labs and review the different techniques and tests that we used to:

Document a crime scene

Search the crime scene

Collect evidence at the crime scene

Distinguish between class & individual evidence

Identification of hair samples

Match hair to an individual

Identification of fiber samples

Visualize & lift fingerprints from different surfaces

Match fingerprints to an individual

Identification of blood stains

Blood typing