

# BPS 101 Criminal Investigation: Scientific Evidence I – Fall 2009

<u>DATE</u>	<u>TIME</u>	<u>SUBJECT</u>	<u>READINGS</u>
9/11		Orientation and Overview; Overview of Forensic Labs, Lab Safety; Camera Equipment Review, Introduction to photography with an SLR Camera. Basic exposure (Metering, ASA/ISO, aperture & shutter speed).See-Saw Exercise.	Handouts
9/18	A	History of Identification: Fingerprint definitions, Uses, Basic Patterns. Lab Safety Quiz	Handouts
	E	Photography – Program Modes - Aperture Priority (Depth of Field & Exercise) Shutter Priority (Motion & Exercise). Quiz on See-Saw	Basic Photo NB
9/25	E	Magnifiers, Reticles, Ridge Counters Counting Loops, Tracing Whorls, Henry System.	FP: pgs. 1 - 31
	A	Photography – Quiz on Depth of Field & Motion. Bracketing - Exposure Exercise. Flash – Manual, Auto & TTL. Flash Exercise	Basic Photo NB
10/2	A	Henry System, Pattern Review, Recording of prints: Inked/LiveScan.	Lab
	E	Photography – Digital and Video. Quiz on Bracketing and Flash.	Basic Photo NB
10/9		Dusting for Prints – Black & Magnetic Powders. Processing vehicles. ***This class to be held in Providence, 10AM – Bring Fingerprint Kit.	Lab Handouts
10/16	A	Introduction to collection and preservation of evidence. Sexual Assaults. Rape Kits. Alternate Light Sources. In class exercises Buccal swab, Blood collection, ALS.	
	E	Hit & Runs/Accident and B&Es: Types of Evidence. Labs: Pain collection, accident night photography, toolmark casting	
10/23	A	Comparing and Matching Prints, Proper Orientation, Fuming.	Lab, FP: Chapter 5
	E	Fingerprints: Review. Safety, Fuming, Dyes Introduction to Alternate Light Systems	Lab Handouts
10/30	A,E	Two and three dimensional impressions: Photography and collection. Labs: casting in various substrates, exemplar impressions, photography	
11/6	A	General crime scene guidelines-Crime Scene Protocols. Securing Scene. Documentation-photo, video, sketch, notes and report writing. Search Methods. Chain of Custody. Legal issues pertaining to crime scene search/evidence collection Special guest: Attorney General's office.	STAGGS
	E	Fingerprints: Review. NCIC. IAFIS Classifications. Latent prints – Varied Substrates	FP: pgs. 32-35 Lab

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11/13	A	Photography	
	E	Review and Comparisons, Ridge characteristics Latent Substrates, Safety, Iodine, DFO, Ninhydrin & Silver Nitrate Ridge flow, ACE-V methodology, Basic FP chart	FP Chapter 5, 6, 7 Glos. of FP Terms
11/20		Practical exercise (Photo Notebook due)	Lab
11/27		<b>Thanksgiving</b>	
12/4	A	AFIS, Live Scan	
	E	Firearm examinations-Lab. Analysis. Shooting reconstruction. Distance determination. NIBIN. Gunshot residue analysis.	
12/11		Final Exam/ Presentations	

## Textbooks:

Crime Scene and Evidence Photographer's Guide, Steven Staggs

Introduction to Fingerprint Comparison, Gary W. Jones

Criminalistics: An Introduction to Forensic Sciences, Richard Saferstein

## Grading:

Weekly Quizzes:	25%
Photo NoteBook:	25%
Practical Presentation:	25%
Final Examination:	25%

## Photographic equipment:

Each student **must** have available a tripod and camera equipment that meets the following minimum specifications. (Multiple students from the same department may share equipment.)

1. SLR (single-lens-reflex) 35mm film or digital camera body with the following features:
  - a. Aperture Priority Mode
  - b. Shutter Priority Mode
  - c. Program or Automatic Mode
  - d. Manual Mode
  - e. Self timer or Shutter release cord
2. Lenses:
  - a. Wide Angle, Normal, and Telephoto Lenses or a Zoom lens that covers all three areas of focal length (Example 35-70mm Zoom Lens).
  - b. An attachment that allows at least 1:1 close-up photography (Example: a 1:1 screw on adapter (shot glass) or a 1:1 macro lens: 60mm or a 105mm (highly recommended))
3. TTL Dedicated Flash with sync cord to allow dedicated TTL flash off camera.

### Illness Due to Flu

The H1N1 Flu Pandemic may impact classes this semester. If any of us develop flu-like symptoms, we are being advised to stay home until the fever has subsided for 24 hours, without medication. So, if you exhibit such symptoms, please do not come to class. Notify Dennis Hilliard at 401-874-2893 or dch@uri.edu of your status. We will work together to ensure that course instruction and work is completed for the semester.

The Centers for Disease Control and Prevention have posted simple methods to avoid transmission of illness. These include: covering your mouth and nose with a tissue when coughing or sneezing; frequently washing your hands to protect from germs; avoiding touching your eyes, nose and mouth; and staying home when you are sick. For more information, please view [www.cdc.gov/flu/protect/habits.htm](http://www.cdc.gov/flu/protect/habits.htm). URI information on the H1N1 will be posted on the URI website at [www.uri.edu/news/H1N1](http://www.uri.edu/news/H1N1), with links to the [www.cdc.gov](http://www.cdc.gov) site.