

CRIME MUSEUM®

TRAVELING FORENSIC EDUCATION PROGRAM *2011-2012*

CRIME SCENE DO NOT CROSS

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PROGRAM OVERVIEW

The Crime Museum's traveling Forensic Science Program has been developed to meet the needs of science teachers of grades 5th through 12th by offering an introductory exposure to forensic science and/or supplemental programs to current forensic curricula.

In addition to providing a supplemental education, the Crime Museum also provides an opportunity for teachers to learn more about various areas of forensic science. Our Forensic instructors have a background in the field and are well prepared to answer any questions participants may have.

EXPOSURE WORKSHOP/LAB

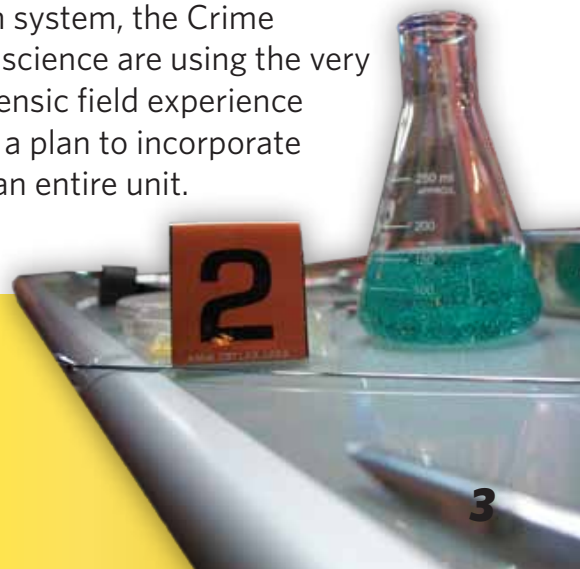
Our beginner courses are designed for students who are not taking forensic science classes and want a general introduction to the field. They include basic forensic techniques, primarily in crime scene investigation, and do not require any previous experience or education in forensics.

SUPPLEMENTAL WORKSHOP/LAB

These courses are designed for students or teachers looking to delve deeper into the various fields of forensics, particularly those already taking classes in various forensic applications. They are specialized and therefore narrower in scope and more in-depth than our Exposure courses. Supplemental courses are ideal for a forensic science class, or for teachers looking to broaden their understanding of forensics.

ON-SITE PROFESSIONAL DEVELOPMENT

As forensic science is continuing to grow within our education system, the Crime Museum wants to ensure that all educators teaching forensic science are using the very best methods and proper techniques. Many teachers lack forensic field experience so by bringing an instructor to your school you can customize a plan to incorporate forensic science into your current science lessons or develop an entire unit.



FORENSIC LAB - TOTAL EXPERIENCE

Time:	1 Hour
Maximum Capacity:	70 Students
Sessions per Day:	4
Grades:	5th through 12th
Level:	Exposure
Price:	\$550 for the first session, \$200 for each additional session plus traveling fees

Overview:

This multi-station lab allows you to step into the shoes of both the forensic scientist and detective. You'll learn how bloodstains can help investigators determine the weapon that created them, as well as how to lift a latent fingerprint, compare fibers microscopically, and decipher DNA profiles and handwriting. You'll also learn how detectives follow up on suspect statements and check alibis using things like witness statements and phone records. Finally, you'll have to put the evidence together and figure out what it takes to solve a case.

CRIME TO COURTROOM WORKSHOP

Time:	1.5 Hours
Maximum Capacity:	20 Students
Sessions per Day:	3
Grades:	5th through 12th
Level:	Exposure
Price:	\$250 for the first session, \$100 for each additional session plus traveling fees

Overview:

Step into the role of a crime scene investigator, detective, jury foreman, or even trial judge in our interactive role-play workshop, simulating the real process of murder investigation. Process a crime scene, learn how to decrypt a barcode on a firearm and see if your forensic evidence will hold up in court. You will learn how all the different roles in the justice system fit together.

IMPRESSIONS WORKSHOP

Time:	1 Hour
Maximum Capacity:	30 Students
Sessions per Day:	4
Grades:	5th through 12th
Level:	Exposure & Supplemental
Price:	\$350 for the first session, \$100 for each additional session plus traveling fees

Overview:

Focusing on impressions evidence—evidence left when an object presses into another, leaving an “impression” behind—this workshop covers crime scene procedures and examination techniques for both shoeprints and fingerprints. You’ll learn to collect shoeprint evidence by making a cast from dental stone, then to make a comparison between a shoeprint and soles of suspects’ shoes. Next you’ll learn to find, enhance, and lift latent fingerprints from smooth surfaces. Finally, you’ll perform a fingerprint comparison and decide whether the evidence gathered is enough to determine the guilt of a particular suspect.

BLOOD & DNA WORKSHOP

Time:	1 Hour
Maximum Capacity:	30 Students
Sessions per Day:	4
Grades:	7th through 12th
Level:	Exposure & Supplemental
Price:	\$350 for the first session, \$100 for each additional session plus traveling fees

Overview:

Forensic biology involves applying biological evidence to crime-solving. This workshop covers various types of bloodstain pattern evidence, and how they can help reconstruct how a crime occurred. Students will compare test castoff patterns to a crime scene to determine the weapon used. You’ll also learn techniques for finding bloodstains invisible to the naked eye and how DNA can place a suspect at the scene of a crime. Finally, you’ll interpret the evidence you’ve gathered to see how such evidence can support or disprove a suspect’s story.

FORENSIC ANTHROPOLOGY LAB

Time:	1 Hour
Maximum Capacity:	70 Students
Sessions per Day:	4
Grades:	7th through 12th
Level:	Exposure & Supplemental
Price:	\$550 for the first session, \$200 for each additional session plus traveling fees

Overview:

This workshop covers various methods of identifying skeletonized human remains used by forensic anthropologists. You'll learn the effects of age on human bones, as well as the differences between the bones of animals and humans, men and women, and humans of different heights. You'll also see examples of unique characteristics that may help make an identification.

FACT V. FICTION WORKSHOP

Time:	1 Hour
Maximum Capacity:	30 Students
Sessions per Day:	4
Grades:	7th through 12th
Level:	Exposure & Supplemental
Price:	\$350 for the first session, \$100 for each additional session plus traveling fees

Overview:

CSI Effect (n.): The effect of crime dramas like CSI on public perception of forensic science, particularly in jury trials, due to the largely inaccurate portrayal of the field.

This workshop will correct many of the common misconceptions about forensic sciences, from common scientific or procedural errors in the programs to inaccurate interpretations of the legal system, as brought on by such fictional accounts. Participants will learn to take these programs with a grain of salt, and will leave the workshop knowing the reality behind their favorite television shows.

BLOODSTAIN PATTERN ANALYSIS

Time:	1 Hour
Maximum Capacity:	30 Students
Sessions per Day:	4
Grades:	9th through 12th
Level:	Supplemental
Price:	\$350 for the first session, \$100 for each additional session plus traveling fees

Overview:

In a workshop entirely devoted to the analysis and interpretation of patterns formed in blood, participants will learn the many types of patterns found at crime scenes, including passive and dynamic stains. Passive stains examined include contact stains such as wipes or swipes, and students will see how direction of motion is determined. Dynamic patterns such as castoff and spatter patterns will be discussed, culminating in an area of origin determination using the string method after calculating various angles of impact.

QUESTIONED DOCUMENTS WORKSHOP

Time:	1 Hour
Maximum Capacity:	30 Students
Sessions per Day:	4
Grades:	9th through 12th
Level:	Supplemental
Price:	\$350 for the first session, \$100 for each additional session plus traveling fees

Overview:

Learn how a single piece of paper can link a suspect to a crime in several different ways. See how obliterated document evidence can be recovered using spectral comparison technology, and how indented writing can be deciphered using advanced technology or simple light physics. Then learn how to determine the author of a document using techniques such as forensic linguistics and handwriting analysis. Finally, take a look at the high-tech security features used to uncover false identification.

PATHOLOGY WORKSHOP

Time:	1 Hour
Maximum Capacity:	30 Students
Sessions per Day:	4
Grades:	9th through 12th
Level:	Supplemental
Price:	\$350 for the first session, \$100 for each additional session plus traveling fees

Overview:

What's it really like to be a forensic pathologist? Learn what kinds of cases are covered by a Medical Examiner, how an autopsy is performed, and what goes into filling out a death certificate. See the differences between various wound types, from lacerations to gunshot wounds. Finally, fulfill your duties as Medical Examiner and determine the cause and manner of death by performing a simulated autopsy.

BODY DECOMPOSITION WORKSHOP

Time:	1 Hour
Maximum Capacity:	30 Students
Sessions per Day:	4
Grades:	9th through 12th
Level:	Supplemental
Price:	\$350 for the first session, \$100 for each additional session plus traveling fees

Overview:

What happens to a body after death? How can forensic scientists tell how long it's been since the moment of death? How can insect activity on a decomposing body help an investigation? In this workshop you'll learn all of this and more—learn the various postmortem processes and how a real forensic scientist determines time of death. You'll see pictures and videos of various processes and use insect evidence to find an approximate postmortem interval for two dead bodies.

FIREARMS & BALLISTICS WORKSHOP

Time:	1 Hour
Maximum Capacity:	30 Students
Sessions per Day:	4
Grades:	9th through 12th
Level:	Supplemental
Price:	\$350 for the first session, \$100 for each additional session plus traveling fees

Overview:

This workshop covers basic physics of firearms, from ballistics (the trajectory and motion of the bullet) to the creation of microscopic striations on ammunition. Participants will learn to decipher a serial number after the owner has attempted to obliterate it, compare bullets and cartridge casings to determine whether they came from the same weapon, and perform a trajectory analysis of a shooting scene.

CRIMINOLOGY

Time:	1 Hour
Maximum Capacity:	30 Students
Sessions per Day:	4
Grades:	9th through 12th
Level:	Supplemental
Price:	\$350 for the first session, \$100 for each additional session plus traveling fees

Overview:

Case studies, popular opinion, religion and political affiliation all can affect the way laws are created and changed. This course will look at our countries social structure and examine statistics - how do they measure up? Is capital punishment a deterrent to crime? Does the new drug court movement have a better impact on addicts? Should marijuana be legal and if it was legal how might it affect our society? Prohibition didn't last long, why? What were the consequences to this era?

ARSON

Time:	1 Hour
Maximum Capacity:	30 Students
Sessions per Day:	4
Grades:	9th through 12th
Level:	Supplemental
Price:	\$350 for the first session, \$100 for each additional session plus traveling fees

Overview:

Arson is the intentional, malicious setting of a fire. A multi-disciplinary approach is used when trying to determine whether a fire is due to arson. In phase one of the workshop, you'll look at different types of fires and learn about the hazards at a scene that involve fire. In phase two, you'll learn about the evidence that an arson investigator could potentially use at the scene to conclude if a fire is accidental or not. And finally in phase three, you'll learn about clues on the body that a Medical Examiner can use to decide whether the victim died as a result of fire. After you analyze all of the evidence based on the three phases; you get to become the arson expert and make your own scientific conclusions about the nature of the fire and the cause of death for the victim.

PROFESSIONAL DEVELOPMENT

At every school, teachers have different needs. Our on-site professional development program has no set agenda. Each day or ½ day can be adapted to suit those needs of the school.

In general the program will include the Legal Aspects of Forensic Science, the CSI Effect, setting up a mock crime scene, and a broad spectrum of forensic fields.

These fields include:

- Forensic questioned document analysis*
- Bloodstain pattern analysis*
- DNA*
- Shoeprints*
- Bite marks*
- Crime scene protocol and documentation*
- Firearms and ballistics*
- Forensic psychology*
- Forensic anthropology*

Other topics may be taught on request as this is just a small list of topics that could be covered.

Since your day will be tailored and customized to fit your needs there is not a flat fee for pricing. We need to know more about what your school or district is looking for. Once we get more information from you we will provide you with pricing.



FREQUENTLY ASKED QUESTIONS

WHAT ARE YOUR TRAVELING FEES AND WHY DO YOU CHARGE THEM?

Our traveling fee is \$1.00 per mile traveled to the site and back. So if we travel 60 miles to a site you can expect \$120 in traveling fees. Fees cover fuel, vehicle maintenance costs, and the additional staff time. There are no travel fees for sites in the District of Columbia.

WILL MY SITE REQUIRE AN OVERNIGHT VISIT?

Any site located more than 120 miles from the Museum will require an overnight stay to ensure that there is enough time for the program. On overnight visits, the site is responsible for lodging fee but not meals.

HOW FAR IN ADVANCE SHOULD I BOOK MY PROGRAM?

We take reservations all year long and recommend calling several months in advance for the best selection of dates.

HOW MUCH ROOM DO I NEED AND WHAT WILL THE SCHOOL NEED TO PROVIDE?

Most workshops can be held in a classroom. The labs could be in classroom, auditorium, cafeteria or gym. Each lab or workshop has a list of items the school will need to furnish. If you have any questions as to whether or not you have these items available please contact **Susan Frese at 202-621-5553 or susan@crimemuseum.org**.

HOW CAN I RESERVE A PROGRAM?

Please contact **Susan Frese at 202-621-5553 or susan@crimemuseum.org**. You can also reserve a program through our website **www.crimemuseum.org**

