

Forensics

Course Description

This is a one-year lab-intensive course that allows students to pursue an in-depth study of forensic science as a tool for collecting evidence and crime scene analysis. Areas of study include physical evidence, properties of matter and the analysis of glass, drugs, forensic toxicology, the microscope, forensic serology, DNA, trace evidence, fire investigation, investigation of explosives, fingerprints, ballistics, forensic anthropology, casts and impressions, document examination and computer forensics.

Course Objectives

- Demonstrate an understanding of academic honesty and ethics.
- Demonstrate effective communication skills, through team working, oral presentations, and good written communication.
- Develop and refine skills related to academic research and the effective communication of complex ideas.
- Be able to apply different techniques and processes within science in service to the law.

Assessing Performance

Students are assessed by obtaining weekly grades from the following: Tests, Lab Reports, Communicative Projects, Group Reports, Crime Scene Analyses, Mock Trials

Concepts Covered

History	Tools	Biological Evidence	Ballistics
Fibers	Toxicology	Chemical Evidence	Crime Scene Analysis
Psychology	Evidence Handling	Physical Evidence	

Materials

Most modules use typical lab equipment found in science classrooms (beakers, flasks, pipettes, scales, plastic well plates, graduated cylinders, goggles), but some require specialized equipment. The items below are reusable one-time purchases. Consult with the trained teachers to better determine what materials are necessary for their chosen modules.

Hardware/Reusable Material	Recommended Unit	Cost/Unit
Microscope (with 100X objective) with 100 glass slides/cover-slips	1 per 4-5 students	\$210
Bullet comparison set	1 per 4-5 students	\$25
Fingerprint kit	1 per 4-5 students	\$75
Mortar and Pestle	1 per 4-5 students	\$5
Meter Stick	1 per 2 students	\$5
Consumables		

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Various consumables for experiments	1 per student	\$20*
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*Complete supply list with purchase links: [Forensic Science Supply List](#)