CHEM 2210: Forensic Science

A. COURSE DESCRIPTION

Credits: 3
Lecture Hours/Week: 0
Lab Hours/Week: 0
OJT Hours/Week: *
Prerequisites: None
Corequisites: None
MnTC Goals: None

Introduction to the theory and practice of crime scene evidence analysis. Topics include, but are not limited to: bloodstain analysis, toxicology, DNA evidence, forensic entomology, fingerprint analysis, biological evidence, arson, and explosives.

B. COURSE EFFECTIVE DATES: 08/02/2023 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Bloodstain Patterns
2. Medicolegal Investigation of Death
3. Postmortem Toxicology
4. Forensic Anthropology
5. Forensic Entomology
6. Biological Evidence
7. Drugs and Poisons
8. Arson and Fire Investigation
9. Explosive Investigation
10. Fingerprint Analysis

D. LEARNING OUTCOMES (General)

1. identify basic scientific principles.
2. apply scientific and legal ethics.
3. analyze bloodstain patterns, toxicology data, DNA and biological evidence interpretation, forensic entomology, fingerprint patterns, and burn patterns that are indicative of arson and explosive devices.
4. examine given evidence to determine the guilt or innocence of a suspect in a crime.

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted