RUTGERS UNIVERSITY Criminal Justice

Scientific Applications in Justice – Fall 2010

Prof. Michael L. Emanuel

This is the first half of a two-term course designed to present the various specialties that exist under the larger discipline, FORENSIC SCIENCE.

In studying the natural sciences and how they apply to Forensics, the course will demonstrate, in the most simple terms, the techniques, skills and limitations of the modern crime laboratory.

The course will provide practical information for Administration of Justice and Pre-law Majors, as well as practitioners and students interested in law enforcement careers.

At the completion of the course, the student will fully appreciate how the scientific, law enforcement and legal communities must work together if a just and logical conclusion is to be reached.

Required Text:

Safferstein, Richard. Criminalistics, an Introduction to Forensic Science,

New Jersey: Prentice-Hall, Inc., 1988 (10th Edition)

Note: The text is available at the University Bookstore. There will also be several class

handouts and students are responsible for all materials contained therein as well.

Suggested Readings:

Lifflander, Mathew L., Final Treatment; The File on Dr. X,

New York: W.W. Morton & Co., 1978

Henry Lee's Crime Scene Handbook

Timothy Palmbach & Marilyn T. Miller

Academic Press Inc., July 2001

Baden, Michael M., Unnatural Death - Confessions of a Medical Examiner,

Random House 1989

Baden, Michael M., Dead Reckoning,

Simon & Schuster 2001

White, P.C., Crime Scene to Court: Essentials of Forensic Science

The Royal Society of Chemistry, July 1998

Pepper, Ian, Crime Scene Investigation: Methods and Procedures

Open University Press, Nov. 2004

Course Requirements:

1)	Midterm Exam	45%
2)	Final Exam	45%
3)	Ouizzes	10%

COURSE OUTLINE

Mon. 13 Sept. Orientation/Introduction/Crime Scene,

Chapters 1, 2, 3

Mon. 20 Sept. Physical Evidence/Microscope/Hair, Fiber, Paint,

Chapters 7, 8

Mon. 27 Sept. GUEST LECTURER

Mon. 4 Oct. Organic Analysis

Chapter 5

Mon. 11 Oct. Inorganic Analysis

Chapter 6

Mon. 18 Oct. Inorganic Analysis, Continued – REVIEW

Mon. 25 Oct. MID TERM

Mon. 1 Nov. Fingerprints

Chapter 14

Mon. 8 Nov. Serology

Chapter 12

Mon. 15 Nov. Blood Evidence

Chapter 12

Mon. 20 Nov. Forensic Toxicology

Chapter 10

Mon. 29 Nov. Drugs

Chapter 9

Mon. 1 Dec. Expert Witness/Medical Examiners Office

Mon. 13 Dec. LAST CLASS - REVIEW

Mon. 20 Dec. FINAL EXAM

NOTE: This outline is subject to change. It is meant as a guide. THE STUDENT REMAINS RESPONSIBLE FOR THE COURSE CONTENT LISTED IN THE OUTLINE.