FE '00
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FORENSIC SCIENCE 330
FALL 2000

Course Description: Scientific methods applied to gathering and preservation of criminal evidence.

Instructors: Errol E. KILANTANG, Diane O'REILLY, Dean YAMAMOTO

Class meetings: Mondays & Wednesdays , 5:45 - 7:45 p.m
Change to Tuesdays & Thursdays, 5:45-7:45 p.m. for Section 1 only.

Text: TECHNIQUES OF CRIME SCENE INVESTIGATION, 5th Edition, Barry A.J. FISHER

Class Objective:

At the end of this class, the student will have an understanding of the scientific methods used in gathering and preserving evidence relating to crimes, the technology and disciplines available for analyzing evidence in the forensic community, the techniques used in processing a crime scene, and the dynamics of personnel involved in the investigation of a crime scene.

SECTION 1: DIANE O'REILLY (Work phone 527-6544/pager no. 576-3648)

October 2 (Monday)	Introduction
October 5 (Thursday)	Chapters 1-3 Introduction The First Officer at the Scene The Crime Scene Investigator(s)
October 10 (Tuesday)	Chapter 4 Specialized Personnel at the Crime Scene

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October 12	(Thursday)	Chapter 5 Processing the Crime Scene
October 17	(Tuesday)	Chapter 6 Establishing Identity
October 19	(Thursday)	Chapter 6 (Continued)
October 24	**(Tuesday)**	**Review/Exam No. 1**

SECTION 2: DEAN YAMAMOTO

October 26	(Thursday)	Chapter 7 Trace Evidence and Miscellaneous Material
October 30	(Monday)	Chapter 8 Blood and Other Biological Evidence
November 1	(Wednesday)	Chapter 9 Impression Evidence
November 6	(Monday)	Chapter 10-11 Firearm Examination Arson and Explosive Evidence
November 8	(Wednesday)	Chapter 12 Illicit Drugs and Toxicology

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SECTION 3: ERROL KILANTANG

November 13 (Monday)	Chapters 13 Sex Assault Investigations
November 15 (Wednesday)	Chapters 14 Burglary Investigation
November 20 (Monday)	Chapter 15 Motor Vehicle Investigation
November 22 (Wednesday)	Chapter 16 Homicide Investigation
November 27 (Monday)	Chapter 16 Homicide Investigation (continued)
November 29 (Wednesday)	Chapter 16 Homicide Investigation (continued)
December 4 (Monday)	Chapter 16 Homicide Investigation (continued)
December 6 (Wednesday)	Chapter 16 Homicide Investigation (continued)
December 11 (Monday)	Chapter 16 Homicide Investigation/Review
December 13 (Wednesday)	**Section 3 Examination**

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EVALUATION:

Each Section will be worth 100 points for a total of 300 points.

Your grades will be based on the following:

Total Points	Percent	Grade
270-300	90-100%	A
240-269	80-89%	B
210-239	70-79%	C
180-209	60-69%	D
0-179	<60%	F

Class attendance is **highly recommended**. Tests/Quiz material will be taken from the **required text and lectures**.

(Rev) WE '00
FS 330
J. Christensen

Class Schedule:

Class I- Introduction to Controlled Substances Identification
* Requirements to be a Forensic Chemist

Techniques used in Organic Analysis- Part I
* Chromatography
  - Gas Chromatography
  - High Performance Liquid Chromatography
  - Thin-Layer Chromatography
  - Electrophoresis

Class II- Techniques used in Organic Analysis- Part II
* Spectrophotometry
  - Theory of Light
  - UV spectrophotometry and IR Spectrometry
* Mass Spectrometry

Class III- **Quiz**
Classes of Controlled Substances- Part I
* Narcotics
* Hallucinogens
* Depressants

Class IV- Classes of Controlled Substances- Part II
* Stimulants
* Anabolic Steroids

Drug Control Laws

Class V- Drug Identification
* Color Tests
* Microcrystalline Tests
* Instrumentation
* Identification of Marijuana