INSTRUCTOR

David O. Carter, PhD Director and Associate Professor of Forensic Sciences

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Office Hours: Tuesdays and Wednesdays 10:00AM – 12:00PM or by appointment.

COURSE DESCRIPTION

FS 230 Forensic Sciences (3)

Survey of scientific methods applied to the collection, analysis and preservation of physical evidence as it is used from the crime scene to the courtroom; quality assurance, ethics, professional practice.

LEARNING OBJECTIVES

Forensic science is the natural science branch of the justice system that is concerned with interpreting physical evidence. Investigations proceed by using physical evidence and testimonial evidence to reconstruct past events; victims, suspects, and witnesses provide testimonial evidence. While forensic science is used to resolve civil, criminal, and regulatory matters, this course will focus on criminal investigation. Not surprisingly, forensic science comprises several disparate fields of study and the aim of this course is to provide an introduction to the use of physical evidence in the justice system.

Each student will finish this class with the ability to:

- Define the role of forensic science in civil and criminal investigations (Program Learning Outcome 3)
- Identify and define the various quality assurance strategies in the forensic sciences, including the legal system, ethical conduct, accreditation, and certification (Program Learning Outcome 2)
- Identify the value of physical evidence in a criminal investigation (Program Learning Outcome 3)
- Interpret the data generated from commonly used techniques to analyse physical evidence (Program Learning Outcome 4)

REQUIRED TEXT

Houck MM, Siegel JA (2015) Fundamentals of Forensic Science. 3rd Edition. Academic Press, Burlington, MA.

EVALUATION OF STUDENT PERFORMANCE

Examinations

Assessment is based on the completion of the Ownership Document at the beginning of the semester along with four examinations. These examinations (Zam Time!!!) will cover discrete components of the content and be delivered as oral examinations.

Ownership Document

You are also required to complete an Ownership Agreement that is designed to encourage you to think about your future and the reason why you are pursuing a career in forensic science. You are required to complete one Ownership Agreement worth 100 points. Late submissions will be penalized one letter grade per day late.

Activity		Points
Ownership Document		100
Exams: Zam Time!		400 @ 100 exam ⁻¹
	Total	500

The grading scale is:

100% - 90%	А
89% - 80%	В
79% - 70%	С
69% - 60%	D
<u><</u> 59%	F

I EN I Week		CHEDU	LE Subject	Notes
Week	Monday	Chapter	Subject	Notes
1	28 Aug	1	Introduction, syllabus & roster review	
	30 Aug	3	The Nature of Evidence	Ownership Document
	1 Sep	24	Legal Aspects of Forensic Science	
2	4 Sep		Class Cancelled	Labor Day
	6 Sep	25	Quality Assurance	
	8 Sep	25	Ethical and Professional Issues	Ownership Document Due
2	11 Con		Cupet Lecture Carles Cutiennes MSES	Cartor @ UC San Diago
3	11 Sep		Guest Lecture – Carlos Gutierrez, MSFS Class Cancelled	Carter @ UC San Diego Carter @ UC San Diego
	13 Sep 15 Sep	2	Crime Scene Investigation	Carter @ OC Sall Diego
	15 Sep	2	Chine Scene Investigation	
4	18 Sep	2	Crime Scene Investigation	
	20 Sep	5	Light and Matter	
	22 Sep	5	Light and Matter	
	1		0	
5	25 Sep		ZAM TIME 1	
	27 Sep	19	Friction Ridge Impressions	
	29 Sep	19	Friction Ridge Impressions	
6	2 Oct	21	Firearms & Toolmarks	
	4 Oct	22	Impression Evidence	
	6 Oct	22	Impression Evidence	
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7	9 Oct	• •	Class Cancelled	Discoverers' Day
	11 Oct	10	Bloodstain Pattern Analysis	
	13 Oct	10	Bloodstain Pattern Analysis	
8	16 Oct		ZAM TIME 2	
0	18 Oct	10	Serology	
	20 Oct	10	DNA Analysis	
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9	23 Oct	11	DNA Analysis	
	25 Oct	7	Medicolegal Death Investigation	
	27 Oct	7	Pathology	
			07	
10	30 Oct		Guest Lecturer – Charlotte Carter, MFS	
	1 Nov		Taphonomy	
	3 Nov		Taphonomy	
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11	6 Nov	9	Entomology	
	8 Nov	8	Anthropology & Odontology	
	10 Nov	8	Anthropology & Odontology	
12	13 Nov		ZAM TIME 3	
12	15 Nov 15 Nov	6	Separation Methods – Forensic Chemistry	
	13 Nov 17 Nov	13	Guest Lecturer – Kate Perrault, PhD	
	17 100	15	Guest Lecturer - Kute I tilluut, I IID	
13	20 Nov	14	Guest Lecturer – Kate Perrault, PhD	
10	20 Nov 22 Nov		Class Cancelled	Thanksgiving
	24 Nov		Class Cancelled	Thanksgiving

TENTATIVE SCHEDULE

14	27 Nov	4	Microscopy	
	29 Nov	12	Hair	
	1 Dec	15	Fibers	
15	4 Dec	16	Paint	
	6 Dec	17	Soil & Glass	
	8 Dec	17	Soil & Glass	
16	12 Dec		ZAM TIME 4, 11:00AM – 1:00PM	FINALS WEEK

ADDITIONAL DIVISIONAL AND UNIVERSITY POLICES

Academic Integrity

Students are expected to follow the Forensic Sciences Code of Conduct. In addition, students are expected to read and abide by the Student Rules of Conduct which are available in your copy of the Student Handbook. Academic dishonesty, in any form, will not be tolerated.

Absences

- Unexcused absences for two consecutive weeks may result in being withdrawn from the course by the instructor.
- All Zam Team members will earn the same grade, whether present or absent.
- An unplanned, excusable absence must be communicated to the instructor within one week of the missed class. Necessary arrangements will be made to meet student learning objectives.
 - Excused absences include but are not limited to
 - Documented illness
 - Accident
 - Documented family emergency parent or guardian communication required
 - Determination of other valid excuses for missed classes is at the sole discretion of the instructor.
- A planned, excused absence must be communicated to the instructor at least one week prior to class. Necessary arrangements will be made to meet student learning objectives.

ADAA Statement

Pursuant to several federal and state laws, including the Americans with Disabilities Act of 1990, as amended by the ADA Amendments Act of 2008, and Section 504 of the Rehabilitation Act of 1973, all qualified students with disabilities are protected from discrimination on basis of disability and are eligible for reasonable accommodations or modifications in the academic environment to enable them to enjoy equal access to academic programs, services, or activities. If a student would like to determine if they

meet the criteria for accommodations, they should contact the Counseling Center at 808-735-4845 for further information.

Policy on Communication

The University provides a Chaminade email address for all students. Official Chaminade communications will be sent to the students' Chaminade email address and instructors will use this email to communicate with students. It is the responsibility of the student to check their email frequently. Report email-related problems to the Helpdesk at 808-735-4855 or helpdesk@chaminade.edu.

Title IX Declaration

Chaminade University of Honolulu recognizes the inherent dignity of all individuals and promotes respect for all people. Sexual misconduct, physical and/or psychological abuse will NOT be tolerated at CUH. If you have been the victim of sexual misconduct, physical and/or psychological abuse, we encourage you to report this matter promptly. As a faculty member, I am interested in promoting a safe and healthy environment, and should I learn of any sexual misconduct, physical and/or psychological abuse, I must report the matter to the Title IX Coordinator. Should you want to speak to a confidential source you may contact the Chaminade Counseling Center at (808) 735-4845.

Electronic Devices

Use of music devices is prohibited during all Natural Science and Mathematics classes at Chaminade, unless specifically permitted by your instructor. Use of music devices in laboratories is a safety issue. In addition, use of music devices in any class is discourteous and may lead to suspicion of academic misconduct. Students who cannot comply with this rule will be asked to leave class and may be subject to laboratory safety violation fines. You will be asked to leave class and marked absent if you do not comply. This will negatively affect your grade. Please refer any questions to the Dean of Natural Sciences and Mathematics.

The instructor may modify elements of this syllabus according to the operational needs of the class.