INSTRUCTOR

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Office Hours: Wednesdays 9:30AM – 11:00AM and 3:00PM – 5:00PM, Friday 9:30AM – 11:00AM, 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
Attendance Ownership Document Exams: Zam Time!	Total	360 (10 points per class) 100 400 (100 points per exam) 860

The grading scale is:

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

TENTATIVE SCHEDULE

Week	Monday	CHEDUI Chapter	Subject	Notes
	•	Chapter	•	
1	15 Jan		Class Cancelled	Carter @ University
	17 Jan		Class Cancelled	College London, UK
	19 Jan		Class Cancelled	
2	22 Jan	1	Introduction, Syllabus & roster review	
	24 Jan	3	The Nature of Evidence	
	26 Jan	24	Legal Aspects of Forensic Science	
3	29 Jan	25	Quality Assurance	
3	31 Jan	25	Quality Assurance	
	2 Feb	25	Ethical and Professional Issues	Ownership Document Due
	2100	23	Edition and Professional Issues	ownership Document Duc
4	5 Feb	2	Crime Scene Investigation	
	7 Feb	2	Crime Scene Investigation	
	9 Feb			
5	12 Feb		ZAM TIME 1	
	14 Feb	19	Friction Ridge Impressions	
	16 Feb	21	Firearms & Toolmarks	
6	19 Feb		Class Cancelled	American Academy of
	21 Feb		Class Cancelled	Forensic Sciences Meeting
	23 Feb		Class Cancelled	Seattle, WA
7	26 Feb	22	Impression Evidence	
,	28 Feb	22	Impression Evidence	
	2 Mar	10	Bloodstain Pattern Analysis	
	- 1/141	10	2100 4014111 1 4010111 1 11141/010	
8	5 Mar	10	Bloodstain Pattern Analysis	
	7 Mar		ZAM TIME 2	
	9 Mar	10,11	Serology & DNA Analysis	
9	12 Mar		Guest Lecture - Carlos Gutierrez, MSFS	Carter @ OSAC
	14 Mar			Chicago, IL
	16 Mar			
10	19 Mar	7	Medicolegal Death Investigation	
	21 Mar	7	Medicolegal Death Investigation	
	23 Mar	7	Pathology	
11	26 Mar		Class Cancelled	Prince Kuhio Day
	28 Mar		Class Cancelled	Spring Recess
	30 Mar		Class Cancelled	Good Friday
12	2 1	0.0	Tankanamy	
12	2 Apr	8,9	Taphonomy	
	4 Apr	9 8	Entomology Anthropology	
	6 Apr	0	Anunopology	
13	9 Apr		ZAM TIME 3	
	11 Apr	4,6	Separation Methods	
	13 Apr	4,6	Trace Evidence	
13	9 Apr 11 Apr		Separation Methods	

14	16 Apr	14	Guest Lecturer – Kate Perrault, PhD	
	18 Apr	14	Guest Lecturer – Kate Perrault, PhD	
	20 Apr	12	Hairs	
15	23 Apr	15	Fibers	
	25 Apr	16	Soil and Glass	
	27 Apr	17	Glass and Paint	
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16	30 Apr	1, 24	Admissibility: Daubert, Frye, Kumho	
	2 May		Tire, Melendez-Diaz	
	4 May	25	Expert Testimony	
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17	8 May		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

- 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.
- 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.
 - o Excused absences include but are not limited to
 - Documented illness or illness
 - Documented family emergency parent or guardian communication required
 - Determination of other valid excuses for missed classes is at the sole discretion of the instructor.

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.

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