

Course Syllabus Chaminade University Honolulu 3140 Waialae Avenue - Honolulu, HI 96816 www.chaminade.edu

Course Number: FS 230 Course Title: Forensic Sciences Department Name: Forensic Sciences School Name: Natural Sciences and Mathematics Term: Fall 2020 Course Credits: 3 Class Meeting Days: Monday, Wednesday, Friday Class Meeting Hours: 12:40PM – 1:40PM Class Location: Online through 11 September 223 Henry Hall from 14 September



Instructor Name: David O. Carter Email: <u>david.carter@chaminade.edu</u> Phone: 808.739.8352 Office Location: 207A Eiben Hall Office Hours: Meetings during Office Hours can be scheduled through Google Calendar. My Office Hours are: Wednesdays 2:00PM – 4:30PM Thursdays 10:00AM – 1:00PM

University Course Catalog 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.

Course Learning Outcomes (CLO)

Forensic science is the natural science branch of the justice system. It 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 introduce the use of physical evidence in the justice system.

Each student will finish this class with the ability to:

1. Define the role of forensic science in civil and criminal investigations.

- 2. Identify and define the various quality assurance strategies in the forensic sciences, including the legal system, ethical conduct, accreditation, and certification.
- 3. Identify the value of physical evidence in a criminal investigation.
- 4. Interpret the data generated from commonly used techniques to analyse physical evidence.

Program Learning Outcomes (PLO)

Upon completion of the degree program in Forensic Sciences, students will be able to:

- 1. Apply the scientific method in an adaptive and mindful manner
- 2. Use techniques for recognition, documentation, analysis, and interpretation of physical evidence
- 3. Implement quality assurance programs, incorporating ethics and professional practice, to act as stewards of justice and peace throughout the broader community
- 4. Communicate disciplinary knowledge to diverse audiences

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	PLO 1	PLO 2	PLO 3	PLO 4	
CLO 1	Х			Х	
<i>CLO 2</i>	Х		Х		
<i>CLO 3</i>	Х				
CLO 4	Х	X	Х		

Alignment of Learning Outcomes

Marianist Characteristics & Native Hawaiian Values

Education is an integral value in both Marianist and Native Hawaiian culture and this class represents one component of your education at Chaminade University of Honolulu. Both recognize the transformative effect of a well-rounded, value-centered education on society, particularly in seeking justice for the marginalized, the forgotten, and the oppressed, always with an eye toward God (Ke Akua). This is reflected in the 'Olelo No'eau (Hawaiian proverbs) and Marianist core beliefs:

- 1. Educate for Formation in Faith (Mana) E ola au i ke akua ('Ōlelo No'eau 364) May I live by God
- 2. Provide an Integral, Quality Education (Na'auao) Lawe i ka ma'alea a kū'ono'ono ('Ōlelo No'eau 1957) Acquire skill and make it deep
- 3. Educate in Family Spirit ('Ohana) 'Ike aku, 'ike mai, kōkua aku kōkua mai; pela iho la ka nohana 'ohana ('Ōlelo No'eau 1200) Recognize others, be recognized, help others, be helped; such is a family relationship
- 4. Educate for Service, Justice and Peace (Aloha) Ka lama kū o ka no'eau ('Ōlelo No'eau 1430) Education is the standing torch of wisdom
- 5. Educate for Adaptation and Change (Aina) 'A'ohe pau ka 'ike i ka hālau ho'okahi ('Ōlelo No'eau 203) All knowledge is not taught in the same school

This class will focus on an education in the forensic sciences as an education in service, justice, and peace. This characteristic will be obvious to you very early in the class when we discuss all of the rules associated with the collection, analysis, and interpretation of physical evidence. You will learn that most forensic scientists are public servants that conduct science for the benefit of society. Forensic scientists analyze, and speak for, evidence so that justice can be served and peaceful society can flourish.

Required Learning Materials

This class requires a textbook that will be complemented by recorded lectures. The lectures are based on the textbook chapters, with some additional material that is not included in the book. Most of this additional material is related to medicolegal death investigation. My advice is to read the chapters and watch the lectures. You can do them in any order you like, but it is best to participate in both.

Textbook

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

Canvas

Canvas will serve as the repository for university documents and your grade, which will be updated each week. Canvas will also be used for email communication.

Google Drive

You will receive a link to a shared Google Drive. This drive will be used to house larger files such as lecture presentations, Exams, and materials related to the Quick Reference Card.

Google Slides

You are required to use Google Slides for the Quick Reference Card assignment. Google Slides is available to you in your Google Drive.

TENTATIVE SCHEDULE

Week	Monday	Chapters	Subject	Notes
1	24 Aug	1,3	MODULE 1: Science and Investigation Introduction and Syllabus Review Forensic Sciences, Nature of Evidence	
2	31 Aug	24,25	Ethics and Professional Practice Legal Aspects of Forensic Sciences	Ownership Document Due Silvers Words
3	7 Sep	1,2,3	Crime Scene Investigation	Labor Day Exam 1
4	14 Sep	19, 21	MODULE 2: Pattern Evidence Friction Ridge Examination Firearms and Toolmarks	
5	21 Sep	10, 22	Impression Evidence	
6	28 Sep	10, 22	Bloodstain Pattern Analysis	
7	5 Oct	10, 11	MODULE 3: Biological Evidence Serology and DNA Analysis	Exam 2
8	12 Oct	7, 11	Serology and DNA Analysis Medicolegal Death Investigation	Discoverers' Day
9	19 Oct	7, 8, 9	Medicolegal Death Investigation Taphonomy, Anthropology	
10	26 Oct	7, 8, 9	Taphonomy, Anthropology Entomology	Exam 3
11	2 Nov	13, 14, 18	MODULE 4: Chemical Evidence Forensic Chemistry, Drug Chemistry Toxicology	Quick Reference Card Work
12	9 Nov	12, 15, 17	Soils, Hairs, Fibers	Veterans Day Quick Reference Card Work
13	16 Nov	12, 15, 17	Soils, Hairs, Fibers	
14	23 Nov		Finals	Exam 4 Thanksgiving Day

EVALUATION OF STUDENT PERFORMANCE

All grades will be posted in Canvas within one week of assignment/exam submission. Attendance grades will be posted to Canvas on a weekly basis. Your grade will be kept current all semester. You are encouraged to contact me at <u>david.carter@chaminade.edu</u> at any time to discuss your grades. I strongly encourage you to check your grades regularly. All assignments have firm due dates and your score will be penalized 10 points for each day late.

Attendance & Participation

We are scheduled to meet online for the first 3 weeks of the semester (through Friday, 11 September). We will meet live via Zoom during the first week of class, at normally schedule class time. This will allow us to review the syllabus and address any issues that develop. Starting in week 2, we will meet live every Friday and lectures will be delivered asynchronously so that you can watch them at the time that best serves you. You will earn one point per class attended. Zoom invitations will be provided. Our meeting schedule will be revisited after 11 September.

Asynchronous attendance – it is possible that you may not be able to attend some or all classes at the regularly scheduled time. Contact me at <u>david.carter@chaminade.edu</u> to schedule a time to meet outside of regularly scheduled class or make another acceptable arrangement.

Examinations

You are required to complete four exams via Canvas or Google Forms. These exams are modelled after forensic science certification and accreditation exams, which means they are in multiple choice format including true/false. Each exam is worth 100 points. Unexcused missed exams will be penalized 10 points per day late.

Ownership Document

You are also required to complete an Ownership Document 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 Document worth 70 points. Download this document from Canvas, answer the questions, and email them to me at <u>david.carter@chaminade.edu</u> before 4:30PM on Friday, 4 September 2020. Assignments are accepted in .docx and .pages format. This assignment is worth 70 points, 10 points per question answered. Late submissions will be penalized 10 points per day late.

Silvers Words

Words are important. They are at least worth their weight in silver. You will use the Discussion Board to introduce yourself to your classmates and answer the following questions:

- 1. What is your name?
- 2. Where are you from?
- 3. What is your major? Do you have a minor?
- 4. Why do think forensic science is interesting?
- 5. What type of career would you like to establish?

Your initial posting must answer those questions. You must also reply to at least one other classmate. Your reply should identify things that you have in common with your classmate. These replies should be 200 words or less. You need to complete your post and reply by 4:30PM on Friday, 4 September 2020. Late submissions will be penalized 10 points per day late.

Quick Reference Card – Long Term Project

The Chief of Police and the Chief Medical Examiner are looking for a set of quick reference cards that can be distributed to police officers, first responders, investigators, and pathologists to help them to quickly identify physical evidence. You will be placed into groups of 2 - 3 to develop a card to highlight one type of physical evidence (e.g. fingerprints) or one forensic sciences disciple (e.g. forensic toxicology). Use Google Slides to create a 2-sided Quick Reference Card. This card needs to be punchy, concise, and authoritative. Example cards and the grading rubric are located in our Shared Google Drive.

Class time will be dedicated to Quick Reference Card development. These meetings will be held using Zoom break out rooms so that we can acquire experience collaborating electronically.

To submit your Quick Reference Card - Download your finished Google Slides to .pptx format and email to me at <u>david.carter@chaminade.edu</u> by 4:30PM on Friday, 20 November 2020. Late submissions will be penalized 10 points per day late.

Activity	Points
Exams	400 (100 points per exam)
Ownership Document	70
Silvers Words	30 (15 points per post)
Quick Reference Card	100
Attendance	15 (1 point per Zoom class)
Total	614

Letter Grade Scale

100% - 90%	A – Outstanding scholarship and an unusual degree of intellectual initiative
89% - 80%	B – Superior work done in a consistent and intellectual manner
79% - 70%	C – Average grade indicating a competent grasp of subject matter
69% - 60%	D – Inferior work of the lowest passing grade, not satisfactory for fulfillment of prerequisite course work
<u>≤ 59%</u>	F – Failed to grasp the minimum subject matter; no credit earned.

Instructor and Student Communication

Questions for this course can be emailed to the instructor at <u>david.carter@chaminade.edu</u>. Online, inperson and phone conferences can also be arranged.

Academic Conduct Policy

From the Undergraduate Catalog:

Any community must have a set of rules and standards of conduct by which it operates. At Chaminade, these standards are outlined so as to reflect both the Catholic, Marianist values of the institution and to honor and respect students as responsible adults. All alleged violations of the community standards are handled through an established student conduct process, outlined in the Student Handbook, and operated within the guidelines set to honor both students' rights and campus values.

Students should conduct themselves in a manner that reflects the ideals of the University. This includes knowing and respecting the intent of rules, regulations, and/or policies presented in the Student Handbook, and realizing that students are subject to the University's jurisdiction from the time of their admission until their enrollment has been formally terminated. Please refer to the Student Handbook for more details. A copy of the Student Handbook is available on the Chaminade website.

Technical Assistance for Canvas Users

- Search for help on specific topics at <u>help.instructure.com</u>
- Chat live with Canvas Support 24/7/365
- Watch this video to get you started with online guides and tutorials
- Contact the Chaminade IT Helpdesk for technical issues: <u>helpdesk@chaminade.edu</u>, or call (808) 735-4855

Tutoring and Writing Services

Chaminade is proud to offer free, one-on-one tutoring and writing assistance to all students. Tutoring and writing help is available on campus at Kōkua `Ike: Center for Student Learning in a variety of subjects (including, but are not limited to: biology, chemistry, math, nursing, English, etc.) from trained Peer and Professional Tutors. Please check Kōkua `Ike's website

(<u>https://chaminade.edu/advising/kokua-ike/</u>) for the latest times, list of drop-in hours, and information on scheduling an appointment. Free online tutoring is also available via Smarthinking. Smarthinking can be accessed 24/7 from your Canvas account. Simply click Account – Notifications – Smarthinking. For more information, please contact Kōkua `Ike at <u>tutoring@chaminade.edu</u> or 808-739-8305.

Cell phones, tablets, and laptops

Out of consideration for your classmates, please set your cell phone to silent mode during class. Students are encouraged to bring laptops or tablets to class as the instructor will assign online activities and readings that will require the use of a laptop or tablet. Laptops and tablets should not be misused, such as checking distracting websites. Use your best judgment and respect your classmates and instructor.

Disability Access

Chaminade University of Honolulu is committed to providing reasonable accommodations for persons with documented disabilities. Any student who believes that they may need accommodations must first register with the Counseling Center. Registration with the Counseling Center begins the process of determining whether the student meets the requirements for a documented disability in accordance with the Americans with Disabilities Act (ADA), even if accommodations may not be needed for this particular class. The contact information for the Counseling Center is (808) 735-4845, 739-4603, or by email at <u>counselingcenter@chaminade.edu</u>. It is important for students to contact the Counseling Center as soon as possible so that accommodations are implemented in a timely fashion and to allow your instructor(s) to plan accordingly. Students will be required to provide written documentation to the

Counseling Center in order for a determination to be made as to whether the requirements for a documented disability under the ADA are met.

Failure to provide written documentation through the Counseling Center will prevent your instructor from making the necessary accommodations, instructors cannot provide accommodations unless they have been prescribed by the Counseling Center. Once you have received an official notice of accommodations from the Counseling Center, it is also very important to discuss these accommodations directly with your instructor so that they can better support your needs. If you have specific questions regarding your individualized accommodations you may speak directly with your instructor and/or you may contact the Counseling Center.

Title IX Compliance

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. If you or someone you know has been harassed or assaulted, you can find the appropriate resources by visiting Campus Ministry, the Dean of Students Office, the Counseling Center, or the Office for Compliance and Personnel Services.

Attendance Policy

The following attendance policy is from the Undergraduate Catalog.

Students are expected to attend regularly all courses for which they are registered. Students should notify their instructors when illness or other extenuating circumstances prevents them from attending class and make arrangements to complete missed assignments. Notification may be done by emailing the instructor's Chaminade email address, calling the instructor's campus extension, or by leaving a message with the instructor's main office. It is the instructor's prerogative to modify deadlines of course requirements accordingly. Any student who stops attending a course without officially withdrawing may receive a failing grade. Unexcused absences equivalent to more than a week of classes may lead to a grade reduction for the course. Any unexcused absence of two consecutive weeks or more may result in being withdrawn from the course by the instructor, although the instructor is not required to withdraw students in that scenario. Repeated absences put students at risk of failing grades.

Students with disabilities who have obtained accommodations from the Chaminade University of Honolulu ADA Coordinator may be considered for an exception when the accommodation does not materially alter the attainment of the learning outcomes. Federal regulations require continued attendance for continuing payment of financial aid. When illness or personal reasons necessitate continued absence, the student should communicate first with the instructor to review the options. Anyone who stops attending a course without official withdrawal may receive a failing grade or be withdrawn by the instructor at the instructor's discretion.