



Course Syllabus

Chaminade University Honolulu

3140 Waiialae Avenue - Honolulu, HI 96816

www.chaminade.edu

Course Number: FS 460
Course Title: Forensic Taphonomy
Department Name: Forensic Sciences
School Name: Natural Sciences and Mathematics
Term: Spring 2023
Course Credits: 3
Class Meeting Days: Tuesday, Thursday
Class Meeting Hours: 11:30AM – 12:50PM
Class Location: 202 Eiben Hall



Instructor Name: David O. Carter
Email: david.carter@chaminade.edu
Phone: 808.739.8352
Office Location: 207A Eiben Hall
Office Hours: Meetings can be scheduled through Google Calendar. My Office Hours are:

Monday 1:00pm – 3:00pm
Tuesday 9:30am – 11:00am, 3:00pm – 4:30pm
Friday 10:00am – 11:30am

University Course Catalog Description

FS 460 Forensic Taphonomy (3)

Processes associated with the decomposition and preservation of organic materials with an emphasis placed on human remains. *Prerequisites:* CH 323/L. *Concurrent registration in FS 460L required.*

Course Learning Outcomes (CLO)

You are now a Decomponaut. As a Decomponaut you are a member of an elite team of scientist diplomats that specialize in death and decomposition. Kind of like the A-Team, if they were significantly more awesome. This class will teach you the importance of death and decomposition to our planet. You will also learn how nature, including human activity, affects decomposition and how decomposition can be used as physical evidence in medicolegal and criminal death investigation.

Each student will finish this class with the ability to:	Program Learning Outcomes
Identify and define common postmortem decomposition processes.	2. Use techniques for recognition, documentation, analysis, and interpretation of physical evidence
Identify and define the value of taphonomy to medicolegal death investigation.	4. Communicate disciplinary knowledge to diverse audiences
Define the influence of environmental variables on taphonomy.	2. Use techniques for recognition, documentation, analysis, and interpretation of physical evidence

Required Learning Materials

This class requires the use of several learning materials, both electronic and physical. This class will be managed electronically through Canvas and Google. All learning materials will be provided.

Textbook

A specific textbook is not required for this class, but you will be provided with publications at no cost. These will be provided to you as we progress through the material.

Canvas

Canvas will serve as the primary 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 including publications, presentation files, images, and other files related to the class.

TENTATIVE SCHEDULE

Week	Date	Subject	Notes
1	10, 12 Jan	Syllabus and Roster Review Taphonomy and Medicolegal Death Investigation	Word Association – Part 1 (Due 13 Jan)
2	17, 19 Jan	Medicolegal Death Investigation Stages of Decomposition	
3	24, 26 Jan	Stages of Decomposition Factors that Regulate Decomposition	
4	31 Jan, 2 Feb	Decomposer Community: Arthropods and Insects	Exam 1
5	7, 9 Feb	Decomposer Community: Arthropods and Insects	
6	14, 16 Feb	Asynchronous Classes: Carcass Image Collection	AAFS – Orlando, FL
7	21, 23 Feb	Asynchronous Classes: Carcass Image Collection	NIJ – Knoxville, TN
8	28 Feb, 2 March	Decomposer Community: Scavengers & Microbial Communities	Carcass Image Collection Due (3 Mar)
9	7, 9 Mar	Temperature and Moisture Burial and Soils	Exam 2
10	14, 16 Mar	Built Environments Decomposition Fluids, Decomposition Odor	
11	21, 23 Mar	Classes Cancelled	Spring Break
12	28, 30 Mar	Decomposition Site Visit	Exam 3
13	4, 6 Apr	Decomposition Site Visits	Good Friday (7 Apr)
14	11, 13 Apr	Decomposition Site Visit Resource Quality	
15	18, 20 Apr	Estimating Postmortem Interval (PMI) Locating Clandestine Graves	Word Association – Part 2 (Due 21 Apr)
16	25, 27 Apr	Identification of the Deceased Cause and Manner of Death	Last Day of Classes (28 Apr)
17	1 May	Monday, 8:30am – 10:30am	Finals Week

EVALUATION OF STUDENT PERFORMANCE

All grades will be posted in Canvas within one week of submission/exam completion. Your grade will be kept current all semester. You are encouraged to contact me at david.carter@chaminade.edu 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.

Word Association

Similar to the pre-test in FS 460L, these exercises will help me gauge your perspective on taphonomy. Once we get settled, I will ask you to submit three words that come to your mind when you think of decomposing remains. We will do this again at the end of semester to see if anything has changed. It will be very exciting.

Exams

You are required to complete four exams over the course of the semester. These exams are modelled after forensic science certification and accreditation exams, which means they are primarily multiple-choice format including true/false. Each exam is worth 50 points.

Carcass Image Collection

Carcasses are everywhere, you probably just don't realize it. To foster your appreciation of carcass ubiquity, you must collect 25 images of carcasses that you have encountered during the semester.

Carcasses must be animals (e.g. mammals, birds, insects, reptiles, fish) and images can be captured using your smartphone. You will probably find most carcasses around your home or while you are outside. You must:

1. Identify each carcass to the best of your ability, e.g. Fish, Cockroach, Mynah
2. Document the location where you found it, e.g. Sunset Beach, Bathroom Floor, Kitchen Sink
3. Upload images to your Carcass Image Google folder

All images are due on Friday, 3 March. Late submissions will be penalized 10 points per day late.

Grading

Letter grades are given in all courses except those conducted on a credit/no credit basis. Grades in this class are calculated from the assignments using this scale:

Activity	Points	
Attendance	52	2 points per class
Word Association I & II	60	10 points per answer
Exams	200	50 points per exam
Carcass Image Collection	50	2 points per image
Total	362	

Points	%	Letter Grade
362 – 324	100 – 90	A
323 – 288	89 – 80	B
287 – 252	79 – 70	C
251 – 216	69 – 60	D
215 – 0	59 – 0	F

Instructor and Student Communication

Questions for this course can be emailed to the instructor at david.carter@chaminade.edu. Online, in-person and phone conferences can also be arranged.

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

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 (‘Olelo 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 (‘Olelo 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 (‘Olelo No’eau 1200) Recognize others, be recognized, help others, be helped; such is a family relationship
4. Educate for Service, Justice, Peace and the Integrity of Creation (Aloha) Ka lama kū o ka no’eau (‘Olelo 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 (‘Olelo 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 class will provide you with an opportunity to acquire an integral, quality set of skills that will help you to provide service, justice, and peace to the recently deceased and bereaved. You will also 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.

University Attendance Policy

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. **Unexcused absences may include (but are not limited to): work issues, travel, or illness without a doctor's note.** 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.

Academic Conduct Policy

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.

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 (<https://chaminade.edu/advising/kokua-ike/>) 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 tutoring@chaminade.edu or 808-739-8305.

Mobile Devices

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 counselingcenter@chaminade.edu. 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.

Technical Assistance for Canvas Users

- Get started and find help on specific topics at the [Canvas Community](#)
- Contact the Chaminade IT Helpdesk for technical issues: helpdesk@chaminade.edu, or call (808) 735-4855

Credit Hour Policy

The unit of semester credit is defined as university-level credit that is awarded for the completion of coursework. One credit hour reflects the amount of work represented in the intended learning outcomes and verified by evidence of student achievement for those learning outcomes. Each credit hour earned at Chaminade University should result in 45 hours of engagement. This equates to one hour of classroom or direct faculty instruction and a minimum of two hours of out-of-class student work each week for approximately fifteen weeks for one semester, 10-week term, or equivalent amount of work over a different amount of time. Direct instructor engagement and out-of-class work result in total student engagement time of 45 hours for one credit.

The minimum 45 hours of engagement per credit hour can be satisfied in fully online, internship, or other specialized courses through several means, including (a) regular online instruction or interaction with the faculty member and fellow students and (b) academic engagement through extensive reading,

research, online discussion, online quizzes or exams; instruction, collaborative group work, internships, laboratory work, practica, studio work, and preparation of papers, presentations, or other forms of assessment. This policy is in accordance with federal regulations and regional accrediting agencies.

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