University of Northern Colorado  
College of Humanities and Social Sciences  
Office of Extended Studies

CRJ 408: Forensic Anthropology for Law Enforcement and Death Investigators  
(3 undergraduate credits)  
Spring 2019

Faculty: Alan Price, MA, SCSA (IAI Ret.)  
Senior Lecturer, University of Northern Colorado  
Fellow, American Academy of Forensic Science  
Email: Alan.Price@unco.edu  
Phone: 303-710-1547

Guest Lecturers:  
(1) Britney Kyle, Ph.D. Department of Anthropology, University of Northern Colorado  
(2) Hillary Parsons, Ph.D., Odyssey Anthro Group

Class Building & Room: Candelaria Hall, Room 1375  
Dates and Times: March 6-20, 2019

Required Texts: A workshop book and study reference guide will be provided to each student for this course at no additional cost.

Recommended Texts:  

Course Description:  
This is an intensive course in basic forensic anthropology for students and professionals who want to learn human osteology and forensic human anthropological techniques. This course will include topics of Introduction to Forensic Anthropology and Human Osteology, Cause and Manner of Death, Decomposition Changes and Time since Death, and Methods of Human Identification. Students will learn the methods for determining sex, age, stature and ancestry of human skeletal remains from actual skeletal specimens. Participants will learn to recognize bone trauma from sharp and blunt force injuries, as well as recognize bone diseases. This course includes a combination of lecture and laboratory exercises.

Student Learning Outcomes:  
1. The participants will acquire a basic knowledge and vocabulary to describe the human skeleton.  
2. The participants will be able to identify elements in the human skeleton.  
3. The participants will be able to apply osteological methods and techniques, including standard protocols to identify age, sex, stature and ancestry.  
4. The participants should be able to identify certain physiological pathologies and trauma from the human skeleton.  
5. The participants will acquire the basic knowledge to enable them to describe in a courtroom
presentation the evidence that was collected or documented in human skeletal remains cases.

Outline of Course Content:

- The Do’s and Don’ts of Handling Bones
- Name the Bones and Human Osteology
- Human vs. Non-human Osteology
- Cause, Manner & Mechanism of Death
- Methods of Postmortem Human Identification
- Taphonomy
- Determination of Age and Sex of an Individual from Skeletal Remains
- Determination of Stature and Ancestry from Skeletal Remains
- Individual Characteristics Determined from Human Skeletal Remains
- Human Teeth and Dental Charting
- Bone Trauma and Bone Disease
- Testifying in Court as an Expert: Demeanor and Protocol

Class Assignments:

Each individual is required to submit a written report of anthropological finding from the ‘victim’ to which their group is assigned. Students will be expected to submit the written results of their group assignments at the conclusions of the week.

Extra Credit: No extra credit is structured into this class.

Examinations:

Both a mid-term and final examination will be administered in compliance with University standards. The Mid-term exam will be on Thursday morning, March 14th and the Final Examination will be online, Wednesday, March 20th. Both examinations will only be administered on their respective dates. Both the mid-term and final exams will be comprehensive of all topics presented in this course. Both the mid-term exam and the final exam will be written and also include a skills recognition section to demonstrate the attendees knowledge of the human osteology and identification processes.

Quizzes:

A daily quiz will be administered on Tuesday, Wednesday, and Friday of this course. Quizzes will include both written answer and laboratory component.

Participation and attendance:

Students cannot afford to miss any portion of this class in order to maintain a passing grade.

- Quizzes = 15 points
- Midterm Exam = 50 points
- Final Exam = 100 points
- Written individual summary = 25 points
Your final grade is based upon the following percentages:

<table>
<thead>
<tr>
<th>Grade</th>
<th>% of Total Points</th>
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<tbody>
<tr>
<td>A</td>
<td>93 – 100%</td>
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<tr>
<td>A-</td>
<td>90 - 92%</td>
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<tr>
<td>B+</td>
<td>88 – 89%</td>
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<tr>
<td>B</td>
<td>83 - 87%</td>
</tr>
<tr>
<td>B-</td>
<td>80 – 82%</td>
</tr>
<tr>
<td>C+</td>
<td>78 – 79%</td>
</tr>
<tr>
<td>C</td>
<td>70 – 77%</td>
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<tr>
<td>D</td>
<td>60 – 69%</td>
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<tr>
<td>F</td>
<td>0 – 59%</td>
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A student’s grade is based upon percentages of the total accumulated points from the mid-term, final, any quizzes, and the individual paper.

UNC’s policies and recommendations for academic misconduct will be followed.

Honor Code:

All members of the University of Northern Colorado community are entrusted with the responsibility to uphold and promote five fundamental values: Honesty, Trust, Respect, Fairness and Responsibility. These core elements foster an atmosphere, inside and outside of the classroom, which serves as a foundation and guides the UNC community’s academic, professional and personal growth. Endorsement of these core elements by students, faculty, staff, administration and trustees strengthens the integrity and value of our academic climate.

Disability Statement:

Students who believe that they may need accommodations in this class are encouraged to contact the Disability Access Center (970-351-2289) as soon as possible to ensure that accommodations are implemented in a timely fashion.

UNC’s Policies

UNC’s policies and recommendations for academic misconduct will be followed. For additional information, please see the Dean of Student’s website, Student Handbook link http://www.unco.edu/dos/pdf/StudentCodeofConduct.pdf

Notice

The Office of Extended Studies reserves the right to cancel or reschedule courses based upon enrollment. Enrolled students will be contacted with information of any change.

Student Satisfaction Evaluation

Participants will be asked to evaluate the workshop for instructors’ knowledge, interest and enthusiasm as well as providing additional information on classes or topics which you would like to see developed as a future offering from UNC.

Portable Electronic Devices

Please extend courtesy to your instructor and fellow students by turning off your portable electronic devices such as: cell phones, pagers, and IPods. Although not an audio issue, text-messaging is a distraction to other students and prevents you from full participation in class. You should keep your
portable electronic devices in your backpack or purse during class. Your personal electronic devices should not be on your desks. If you know that you may need to accept an emergency phone call during class or if you have children in childcare or school, please let the instructor know. If you need to take a phone call during class, please step out of the classroom while you complete your call. Thank you for your cooperation.

Anyone that violates this policy of academic courtesy will be asked to leave the class immediately for the duration of the class. A student discovered to have violated this request will have to submit a one page, type written request to the instructor for permission for re-enter into the course. This paper will be an explanation as to why the discourteous student should be considered for re-entry back into the class. This request will be reviewed by three student peers from the same class to consider the request. Thank you for your cooperation.

Course Withdrawal Information
In accordance with University and Colorado Department of Higher Education policy, if you drop this class after March 6th, you are legally responsible for payment of full tuition. In order to be eligible to receive any refund of tuition, you must contact the Office of Extended Studies (1-800-232-1749) to formally withdraw from your class. Your refund, if applicable, will be based on the date of contact with our office. Withdrawals received via telephone during non-business hours will be processed and dated on the next working day. Failure to notify us will result in UNC tuition being owed even though you do not attend or complete the coursework.

REGISTRATION: You are registering for a credit bearing course and the grade you earn will be recorded on a UNC official transcript. The Office of Extended Studies reserves the right to cancel or reschedule courses based upon enrollment. Enrolled students will be contacted with information of any change.

TUITION: You will be billed by the UNC Bursar's office. Accounts not paid in full by the end of month in which you receive your bill will be assessed a monthly 1.75% finance charge.
## Course Day Schedule:

### DAY 1
**Monday, March 11th**

- **8:00 – 8:45 a.m.** Welcome and Introductions of Staff and Students – Hillary, Britney, Al
- **8:45 – 9:45 a.m.** Introduction to Forensic Anthropology - Hillary
- **9:45 – 10:00 a.m.** Break
- **10:00 – 11:00 a.m.** Anatomical terminology - Britney
- **11:00 – 11:30 a.m.** Human Identification/The Biological Profile - Hillary
- **11:30 a.m. – 1:00 p.m.** Lunch
- **1:00 – 1:30 p.m.** The Do’s and Don’ts of Handling Bones - Britney
- **1:30 – 3:00 p.m.** Name that Bone - Britney
- **3:00 – 3:15 p.m.** Break
- **3:15 – 4:00 p.m.** Human or Non-human? - Britney
- **4:00 – 5:00 p.m.** Crime Scene Investigation - Hillary

### DAY 2
**Tuesday, March 12th**

- **8:00 – 8:30 a.m.** Quiz # 1
- **8:30 – 10:00 a.m.** Age and Sex Estimation - Britney
- **10:00 – 10:15 a.m.** Break
- **10:15 – 11:30 a.m.** Stature and Ancestry Estimation - Hillary
- **11:30 a.m. – 1:00 p.m.** Lunch
- **1:00 – 2:00 p.m.** Pathology - Britney
- **2:00 – 3:15 p.m.** Analyzing skeletal trauma - Hillary
- **3:15 – 3:30 p.m.** Break
- **3:30 – 5:00 p.m.** Basic Forensic Anthropology Laboratory Session: Practice Bone Identification - Britney

### DAY 3
**Wednesday, March 13th**

- **8:00 – 8:30 a.m.** Quiz #2
- **8:30 – 9:45 p.m.** Taphonomy: Decomposition Changes and Time Since Death - Hillary
- **9:45 – 10:00 a.m.** Break
- **10:00 – 11:30 a.m.** Students work on laboratory cases – Britney and Hillary supervise
- **11:30 a.m. – 1:00 p.m.** Lunch
- **1:00 – 2:30 p.m.** Decomp in Montana/the Mountain West - Hillary
- **2:30 – 3:30 p.m.** Human Teeth and Dental Charting - Britney
- **3:30 – 3:45 p.m.** Break
- **3:45 – 5:00 p.m.** Basic Forensic Anthropology Laboratory Session: Practice Bone Identification for Mid-term - Britney

### DAY 4
**Thursday, March 14th**

- **8:00 – 9:00 a.m.** Midterm Exam
- **9:00 – 10:00 a.m.** Forensic Archaeology - Hillary
- **10:00 – 10:15 a.m.** Break
<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>10:15 – 11:45 a.m.</td>
<td>Students work on laboratory cases – Britney and Hillary supervise</td>
</tr>
<tr>
<td>11:45 a.m. – 1:15 p.m.</td>
<td>Lunch</td>
</tr>
<tr>
<td>1:15 – 2:15 p.m.</td>
<td>Testifying in Court as an Expert: Court Demeanor and Protocol - Al</td>
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<tr>
<td>2:15 – 2:30 p.m.</td>
<td>Break</td>
</tr>
<tr>
<td>2:30 – 3:15 p.m.</td>
<td>Collecting and Packing Bones as Evidence for Transport - Hillary</td>
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<tr>
<td>3:15 – 5:00 p.m.</td>
<td>Basic Forensic Anthropology Laboratory Session: Practice Bone Identification - Britney</td>
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**DAY 5**

**Friday, March 15th**

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<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>8:00 – 8:30 a.m.</td>
<td>Quiz #3</td>
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<tr>
<td>8:30 – 9:30 a.m.</td>
<td>POW/MIA recovery - Hillary</td>
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<tr>
<td>9:30 – 10:30 a.m.</td>
<td>Human Rights and the Ethics of Working with Skeletal Remains - Britney</td>
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<tr>
<td>10:30 – 10:45 a.m.</td>
<td>Break</td>
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<tr>
<td>10:45 – 11:30 a.m.</td>
<td>Basic Forensic Anthropology Laboratory Session: Practice Bone Identification - Britney</td>
</tr>
<tr>
<td>11:30 a.m. – 1:00 p.m.</td>
<td>Lunch</td>
</tr>
<tr>
<td>1:00 – 2:00 p.m.</td>
<td>Clearing aircraft wreckage sites for archaeological excavation - Hillary</td>
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<tr>
<td>2:00 – 2:15 p.m.</td>
<td>Break</td>
</tr>
<tr>
<td>2:15 – 5:00 p.m.</td>
<td>Final preparation of individual student reports – Britney and Hillary</td>
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