Central Christian College of Kansas

Title: Introduction to Forensic Science

Code: SS-CJ 316

Credits: 3
Prerequisites: No

Description:

Overview of general principles of forensic

science, techniques, equipment, and

methodologies as used in crime laboratories. Focus on fingerprint and firearm identification,

trace evidence (hair, fiber, paint, and glass),

blood, DNA evidence, forensic documentation examination, crime scene kits, and forensic

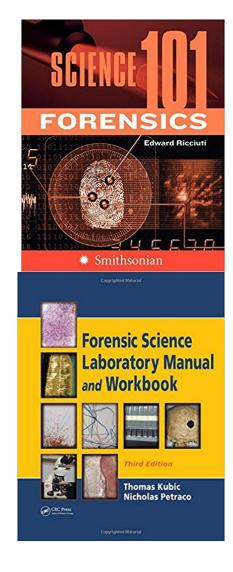
microscopy.

At the end of the course, you will be able to:

- Explain the basics in crime scene management including process and handling of evidence.
- Explore various types of laboratory services and forensic examinations.
- Demonstrate knowledge of the history of criminology, roles of personnel, and apply a basic understanding of forensics as advances to the courtroom.
- Examine and critically review forensics in real cases and learn from those cases, processes and procedures to manage a crime scene
- Conduct applied laboratory exercises and lab reports first hand to further understand forensics.

Textbooks:

- Ricciuti, E. (2007). *Science 101: Forensics*. New York, NY: Harper Perennial.
- Kubic, T. & Petraco, N. (2009). Forensic Science Laboratory Manual and Workbook (3rd ed.). Boca Raton, FL: CRC Press.



Topic	Readings	Assignments
Early Beginnings of Forensics	Readings Science 101: Forensics Chapter 1 pages 5 - 17 Chapter 2 pages 18 - 36	 Pre-test Plagiarism Certificate Discuss 1: History of Forensic Science Discuss 2: JonBenét
 First Responder/Crime Scenes The Scientific Method 	Forensic Science Laboratory Manual and Workbook • Experiment 2 pages 11 - 52	 Ramsey Discuss 3: Observations and Conclusions Week 1 Lab Apply: JonBenét Ramsey Case

Topic	Readings	Assignments
 Crime Labs Forensic Pathology Documenting a Crime Scene 	 Chapter 3 pages 35 - 51 Chapter 4 pages 53 - 67 Forensic Science Laboratory Manual and Workbook Experiment 8 pages 53 - 60 Outside Readings The New High Crime Scene Investigator 	 Discuss 1: O.J. Simpson Discuss 2: Sacco and Vanzetti Evaluation Week 2 Lab
Topic	Readings	Assignments
 Forensic Anthropology Forensics Implemented Forgery Detection Exercise 	 Chapter 5 pages 69 - 83 Chapter 6 pages 84 - 107 Forensic Science Laboratory Manual and Workbook Experiment 24 pages 171 - 175 Outside Readings Fingerprinting Reliability Draws Growing Court Challenge Examination of Soil, Physical Evidence Bulletin 	 Discuss 1: Jigsaw Murders Discuss 2: Lindbergh Week 3 Lab Apply: Prosecutive Report
Topic	Readings	Assignments
 Understanding DNA Crime Chemistry	Science 101: Forensics	Discuss 1: Deborah Green

Fingerprint Matching Exercise	 Chapter 7 pages 106 - 124 Chapter 8 pages 125 - 139 Forensic Science Laboratory Manual and Workbook Experiments 5 & 6 pages 31 - 46 Outside Readings Kansas Doctor is Accused in Fire That Killed 2 of Her Children 	 Discuss 2: Martin Luther King/James Earl Ray Evaluation Week 4 Lab
Topic	Readings	Assignments
 Criminal Profiles Nature and Crime Foot Impression Exercise 	 Chapter 9 pages 141 - 155 Chapter 10 pages 157 - 173 Forensic Science Laboratory Manual and Workbook Experiment 18 pages 133 - 140 Outside Readings Crime Scene Journal Vol. 1 (Issue 1) 	 Discuss 1: Dennis Rader "BTK" Discuss 2: Ted Bundy Week 5 Lab
Topic	Readings	Assignments
 Crime Mysteries Popularization of Forensics	 Science 101: Forensics Chapter 11 pages 173 - 187 Chapter 12 pages 188 - 203 	 Discuss 1: Timothy McVeigh Discuss 2: Geographic Area Evaluation Apply: Bombings Post-test

Outside Readings	
 A Guide for Investigating Bomb and Explosion Scenes How do Fertilizer Bombs Work? 	

Assessments	Number	Points Eac	h Total
Discussion	13	25	325
Labs	5	75	375
Applys	3	50	150
Evaluations	3	50	150
Pre-Test Participation	1	5	5
Post-Test Participation	1	5	5
Total			1010

Students are expected to post in the discussion board a **minimum** of **three separate posts** on three separate post dates per discussion thread. The three posts for **each** thread must include:

- 1. One "initial" post in response to the instructor's question (or stated assignment) no later than Thursday of each course week.
- 2. Two "follow up" posts in response to at least one classmate by Sunday of each course week.

The initial response to a discussion question should substantively demonstrate familiarity with the content of the question. The response should be 150-200 words in length. To ensure the discussion is a collective and focused exploration of the topic in the question, the discussion thread should remain focused on the question.

The timing of responses is important since other students are dependent on your postings in order to fully develop the discussion and to post "follow up" discussion entries. Responses should occur in the week the discussion question is posted for reply. Preparation for the response is encouraged to ensure a thoughtful and well-founded contribution to the discussion.

Each learner is expected to both respond initially (by Thursday each week) to the discussion question or assignment instruction posted by the instructor/facilitator each week and make at least two follow-up responses to other learners' postings in the discussion thread by the end of

the week (Sunday at 11:59pm). The purpose is to ensure an informed and thoughtful dialogue focused on the topic.

Initial Response (Standard Posting Requirements)

0 Points	1-2 Points	3-4 Points	5 Points
No initial response posted.	Initial response is superficial (less than 100 words), and/or posted after Thursday at 11:59 p.m. CT.	A substantive initial response is posted prior to Thursday at 11:59 p.m. CT that contains 100-149 words.	A substantive initial response is posted prior to Thursday at 11:59 p.m. CT that includes at least 1 reference to course material or another reliable source (150 words or more).

Initial Response (Quality of Content)

	0 Points	1-2 Points	3-4 Points	5 Points
Res	ponse is irrelevant	Response	Response addresses the	Response addresses the
to th	ne question and	addresses the	question, though greater	question, is reflective, and
does	s not add to the	question, but	reflection or development	represents a substantive
inte	nt of the	lacks depth or	of thought would be	contribution to the
disc	ussion.	goes off topic.	helpful.	discussion.

Follow-Up Posts			
0 Points	1-2 Points	3-4 Points	5 Points
No	Follow-up posts do not	Follow-up posts	Follow-up posts elaborate on
follow-up	provide sufficient	demonstrate an appreciation	the comments of others and
posts	analysis or synthesis of	for the input of others and	add to the discussion with
made.	the discussion.	add to the discussion.	further analysis and synthesis.

Mechanics

0 Points	1-2 Points	3-4 Points	5 Points
Posts lack any organization and/or contain multiple errors in spelling or mechanics.	Posts are somewhat organized, but interrupted by significant errors in spelling and mechanics.	Posts could benefit by a bit more organization and attention to mechanical details.	Posts are clear and formatted in a way that is easy to read, free from spelling and mechanical errors.

Frequency of Participation

0 Points	1-2 Points	3-4 Points	5 Points
No participation in discussion.	All posts made on the same day.	Posts made on 2 different days.	Posts made on 3 (or more) different days.

Apply

There are **three** application assignments in this course. These are designed so you apply the knowledge and skills you learn during the week.

Introduction

Absent	Needs Improvement		Proficient	
paper. (0 points)	• ,		There is an introduction that introduces the topic, its importance and it alerts readers to the structure of the discussion of your ideas. (7 points)	
Body (Use of Cou		- ·		
Absent	Nec	eds Improvement	Proficient	
No course terms and concepts were used. (0 points)	Some of the course terms and concepts were used inappropriately or key terms and concepts were missing from the discussion. (1-19 points)		All of the relevant course terms and concepts were present and used appropriately in the discussion. (20 points)	
Conclusion				
Absent	Nee	ds Improvement	Proficient	
Absent There is no conclusion to the paper. (0 points).	There is a consynthesize the and/or provide	clusion, but it does not main ideas of the paper, es implications for practice. (1-7 points)	Proficient There is a conclusion that synthesizes the main ideas of the paper, and/or provides implications for research and/or practice. (8 points)	•
There is no conclusion to the paper. (<i>0 points</i>).	There is a consynthesize the and/or provide research and/or	clusion, but it does not main ideas of the paper, es implications for	There is a conclusion that synthesizes the main ideas of the paper, and/or provides implications for research and/or practice. (8	;
There is no conclusion to the paper. (<i>0 points</i>).	There is a con synthesize the and/or provide research and/o	clusion, but it does not main ideas of the paper, es implications for or practice. (1-7 points)	There is a conclusion that synthesizes the main ideas of the paper, and/or provides implications for research and/or practice. (8 points)	;
There is no conclusion to the paper. (<i>0 points</i>). Writing Mechanic	There is a consynthesize the and/or provide research and/or see and/or provide research and/or see	clusion, but it does not main ideas of the paper, es implications for practice. (1-7 points) eg, Grammar, etc.)	There is a conclusion that synthesizes the main ideas of the paper, and/or provides implications for research and/or practice. (8 points) The Proficient Ing, The paper had very minimal	
There is no conclusion to the paper. (<i>0 points</i>). Writing Mechanta Abservation Abservat	There is a consynthesize the and/or provide research and/or see arch and/or research and/or re	clusion, but it does not main ideas of the paper, es implications for practice. (1-7 points) eg, Grammar, etc.) Needs Improvement The paper had some spelli grammar, etc. errors. (1-4 points).	There is a conclusion that synthesizes the main ideas of the paper, and/or provides implications for research and/or practice. (8 points) The paper had very minimal spelling, grammar, etc. errors	

Evaluations

points)

The paper did not meet the

There are **three** evaluations in this course: covering the knowledge and skills discussed during the week. Each evaluation has **ten** questions at **five** points each.

The paper met some of the

The paper met all format

requirements. (10 points)

The final project will provide you the opportunity to demonstrate your ability to apply what you have learned throughout this course.

Final Project

Please scroll down to read the instructions for this assignment.

minimum format requirements. (0 format requirements. (1-9)

points)

Content Requirements

Your final project will be a 3-5-page paper on a criminal act of your choice. Here are your instructions.

- Choose a crime that is prevalent in society
- Define the crime using your state statute

What are some statistics of the crime in your town? What about at the state and national level? Here is a website to help with your research: https://ucr.fbi.gov/ucr-publications

What is the causation of the crime? Briefly discuss which of the three major sociological theories is most likely the causation.

Offender profile:

- Who is the offender?
- Gender, race, age
- Socioeconomic status
- Education level
- Employment
- Personality characteristics

Victim profile:

- Who is the victim?
- Do they target the same type of victim?
- Why or why not?

Give an example of the crime in real life.

Solving the crime: How is the crime generally solved if it's solved at all. What are some deterrents used to stop the crime from happening again? What types of punishment or rehabilitative services does the offender receive? What are the recidivism rates?

Document Type:	MS Word
Paper Size:	8.5 X 11"
Length:	3-5 pages
Margins:	1"
Font:	10-12 pt Times New Roman or a similar font.
Line Spacing:	Double. No extra double space between paragraphs please.
Paper Structure:	Cover PageIntroductionBody

- ConclusionReferences

In-text Citations & Reference List Style File Naming Convention		APA (as outlined in <i>Undergraduate</i> Writing Guide located in Doc Sharing) LastNameFirstName_FinalPaperProject Example: DoeJohn_FinalPaperProject	
	Ratings		
Criteria	Absent	Needs Improvement	Proficient
Introduction	There is no introduction to the paper. (0 points)	There is an introduction, but it does not introduce the topic, its importance, and/or alert readers to the structure of the discussion of your ideas. (1-34 points)	importance, and
Body (Use of Course Terms and Concepts)	No course terms and concepts were used. (0 points)	Some of the course terms and concepts were used inappropriately or key terms and concepts were missing from the discussion. (1-79 points)	All of the relevant course terms and concepts were present and used appropriately in the discussion. (80 points)
Conclusion	There is no conclusion to the paper. (0 points)	There is a conclusion, but it does not synthesize the main ideas of the paper, and/or provides implications for research and/or practice. (1-34 points)	synthesizes the main ideas of the paper, and/or provides implications for research and/or
Writing Mechanics (e.g. Spelling,	The paper had 10 or more spelling, grammar, etc. errors. (<i>0 points</i>)	The paper had 5-10 spelling, grammar, etc. errors. (1-19 points)	The paper had very minimal spelling, grammar, etc.

Grammar, etc.) Format (e.g., length, font size, margins, in- The paper did not meet the minimum format requirements and/or no APA citation. (*0 points*) citations points) and reference list in APA style)

errors. (20 points)

The paper met some of the format requirements. (1-19

The paper met all format requirements and APA requirement. (20 points)