

Course Outline of Record

1. Course Code: AJ-021
2.
  - a. Long Course Title: Introduction to Forensics
  - b. Short Course Title: INTRO TO FORENSICS
3.
  - a. Catalog Course Description:  
 This course provides an introduction to the role of forensics in criminal investigations. It examines the methods utilized in the forensic analysis of crime scenes, pattern evidence, instruments, firearms, questioned documents and controlled substances.
  - b. Class Schedule Course Description:  
 This course provides an introduction to the role of forensics in criminal investigations.
  - c. Semester Cycle (if applicable): N/A
  - d. Name of Approved Program(s):
    - ADMINISTRATION OF JUSTICE Associate in Science for Transfer Degree (AS-T)
4. Total Units: 3.00      Total Semester Hrs: 54.00  
 Lecture Units: 3      Semester Lecture Hrs: 54.00  
 Lab Units: 0      Semester Lab Hrs: 0  
 Class Size Maximum: 30      Allow Audit: No  
 Repeatability No Repeats Allowed  
 Justification 0
5. Prerequisite or Corequisite Courses or Advisories:  
*Course with requisite(s) and/or advisory is required to complete Content Review Matrix (CCForm I-A)*  
 Prerequisite: AJ 001 or concurrent enrollment
6. Textbooks, Required Reading or Software: (List in APA or MLA format.)
  - a. Houck, Max M., Siegel, Jay A. (2015). *Fundamentals of Forensic Science* (3rd/e). Burlington, MA Academic Press. ISBN: 9780128000373  
 College Level: Yes  
 Flesch-Kincaid reading level: 12
7. Entrance Skills: *Before entering the course students must be able:*
  - a.  
 Demonstrate an understanding of criminological theories used to explain crime and criminality;
    - AJ 001 - Demonstrate an understanding of criminological theories used to explain crime and criminality;
  - b.  
 Explain the methods, theories, and concepts associated with the sources of crime data, the emerging patterns of criminal activity, and the costs of crime;
    - AJ 001 - Explain the methods, theories, and concepts associated with the sources of crime data, the emerging patterns of criminal activity, and the costs of crime;
  - c.  
 Convey an understanding of the process of adjudication;
    - AJ 001 - Convey an understanding of the process of adjudication;
  - d.  
 Identify and describe special issues in the criminal justice system involving juvenile delinquency, drugs, and the future

development;

- AJ 001 - Identify and describe special issues in the criminal justice system involving juvenile delinquency, drugs, and the future development;

e.

Understand the history, development, and structure, and function of American police, courts, and corrections;

- AJ 001 - Understand the history, development, and structure, and function of American police, courts, and corrections;

f.

Demonstrate an understanding of the history, structure, and function of the police;

- AJ 001 - Demonstrate an understanding of the history, structure, and function of the police;

8. Course Content and Scope:

Lecture:

1. Role of Forensic Science within the Criminal Justice System
2. Crime Scene analysis versus crime scene processing
3. Analysis of Pattern Evidence in Investigations
4. Principles of Fingerprint Identification
5. Analysis of Document Evidence
6. Firearms and tool mark analysis
7. Collection, Preservation and analysis of DNA evidence
8. Arson and Explosives evidence
9. Types of Controlled Substances evidence

Lab: *(if the "Lab Hours" is greater than zero this is required)*

9. Course Student Learning Outcomes:

1.

Identify the main components of forensic science.

2.

Explain the safety concerns and precautions in crime scene investigations.

3.

Identify key methods used in crime scene processing and evidence collection.

4.

Explain the concept of evidence and recognize specific types of evidence.

10. Course Objectives: *Upon completion of this course, students will be able to:*

- a. Identify and explain the role of forensic specialists in the Criminal Justice System.
- b. Identify the various types of crime scenes and differentiate between crime scene process versus crime scene analysis.
- c. Identify and differentiate the types of pattern evidence and explain their respective importance in crime scene reconstruction.
- d. Identify and explain Personal Identification Patterns that identify a person.
- e. Identify and explain the processes for analyzing questioned documents.
- f. Identify the three methods of DNA typing.
- g. Explain the procedures for the collection and preserving DNA evidence to prevent contamination.
- h. Identify and Differentiate the chemical and material evidence in Arson and Explosives crime scenes.
- i. Identify and Differentiate depressant, stimulant, hallucinogen, and narcotic substances and explain the methods of analyzing each type of substance in a forensic laboratory.
- j. Identify and explain the processes for analyzing tool mark and firearm evidence.

11. Methods of Instruction: *(Integration: Elements should validate parallel course outline elements)*

- a. Demonstration, Repetition/Practice
- b. Discussion
- c. Distance Education
- d. Lecture
- e. Participation
- f. Technology-based instruction

12. Assignments: *(List samples of specific activities/assignments students are expected to complete both in and outside of class.)*

In Class Hours: 54.00

Outside Class Hours: 108.00

a. In-class Assignments

- 1. Case Presentation in class
- 2. Conduct a mock crime scene investigation
- 3. Video presentations

b. Out-of-class Assignments

- 1. Case study research
- 2. Written evidence and non-evidence items at a mock crime scene.
- 3. Reading textbook and supplementary assignments

13. Methods of Evaluating Student Progress: *The student will demonstrate proficiency by:*

- Presentations/student demonstration observations
- True/false/multiple choice examinations  
Multiple-choice examinations on all course objectives
- Mid-term and final evaluations
- Student participation/contribution
- Other  
Case analysis

14. Methods of Evaluating: Additional Assessment Information:

15. Need/Purpose/Rationale -- *All courses must meet one or more CCC missions.*

PO - Career and Technical Education

Apply critical thinking skills to execute daily duties in their area of employment.

Apply critical thinking skills to research, evaluate, analyze, and synthesize information.

Exhibit effective written, oral communication and interpersonal skills.

Transfer to a higher level learning institution

IO - Personal and Professional Development

Develop realistic goals.

Display habits of intellectual exploration, personal responsibility, and physical well being.

Demonstrate an understanding of ethical issues to make sound judgments and decisions.

16. Comparable Transfer Course

|                          |               |                      |                     |                     |
|--------------------------|---------------|----------------------|---------------------|---------------------|
| <b>University System</b> | <b>Campus</b> | <b>Course Number</b> | <b>Course Title</b> | <b>Catalog Year</b> |
|--------------------------|---------------|----------------------|---------------------|---------------------|

17. Special Materials and/or Equipment Required of Students:

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18. Materials Fees:  Required Material?

| Material or Item                                                                                                                               | Cost Per Unit | Total Cost |
|------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------|
| 19. Provide Reasons for the Substantial Modifications or New Course:                                                                           |               |            |
| Periodic review.                                                                                                                               |               |            |
| 20. a. Cross-Listed Course ( <i>Enter Course Code</i> ): <u>N/A</u>                                                                            |               |            |
| b. Replacement Course ( <i>Enter original Course Code</i> ): <u>N/A</u>                                                                        |               |            |
| 21. Grading Method ( <i>choose one</i> ): <u>Letter Grade Only</u>                                                                             |               |            |
| 22. MIS Course Data Elements                                                                                                                   |               |            |
| a. Course Control Number [CB00]: <u>CCC000542272</u>                                                                                           |               |            |
| b. T.O.P. Code [CB03]: <u>210500.00 - Administration of Justice</u>                                                                            |               |            |
| c. Credit Status [CB04]: <u>D - Credit - Degree Applicable</u>                                                                                 |               |            |
| d. Course Transfer Status [CB05]: <u>B = Transfer CSU</u>                                                                                      |               |            |
| e. Basic Skills Status [CB08]: <u>2N = Not basic skills course</u>                                                                             |               |            |
| f. Vocational Status [CB09]: <u>Clearly Occupational</u>                                                                                       |               |            |
| g. Course Classification [CB11]: <u>Y - Credit Course</u>                                                                                      |               |            |
| h. Special Class Status [CB13]: <u>N - Not Special</u>                                                                                         |               |            |
| i. Course CAN Code [CB14]: <u>N/A</u>                                                                                                          |               |            |
| j. Course Prior to College Level [CB21]: <u>Y = Not Applicable</u>                                                                             |               |            |
| k. Course Noncredit Category [CB22]: <u>Y - Not Applicable</u>                                                                                 |               |            |
| l. Funding Agency Category [CB23]: <u>Y = Not Applicable</u>                                                                                   |               |            |
| m. Program Status [CB24]: <u>1 = Program Applicable</u>                                                                                        |               |            |
| Name of Approved Program ( <i>if program-applicable</i> ): <u>ADMINISTRATION OF JUSTICE</u>                                                    |               |            |
| <i>Attach listings of Degree and/or Certificate Programs showing this course as a required or a restricted elective.)</i>                      |               |            |
| 23. Enrollment - Estimate Enrollment                                                                                                           |               |            |
| First Year: <u>25</u>                                                                                                                          |               |            |
| Third Year: <u>35</u>                                                                                                                          |               |            |
| 24. Resources - Faculty - Discipline and Other Qualifications:                                                                                 |               |            |
| a. Sufficient Faculty Resources: <u>Yes</u>                                                                                                    |               |            |
| b. If No, list number of FTE needed to offer this course: <u>N/A</u>                                                                           |               |            |
| 25. Additional Equipment and/or Supplies Needed and Source of Funding.                                                                         |               |            |
| <u>N/A</u>                                                                                                                                     |               |            |
| 26. Additional Construction or Modification of Existing Classroom Space Needed. ( <i>Explain:</i> )                                            |               |            |
| <u>N/A</u>                                                                                                                                     |               |            |
| 27. FOR NEW OR SUBSTANTIALLY MODIFIED COURSES                                                                                                  |               |            |
| Library and/or Learning Resources Present in the Collection are Sufficient to Meet the Need of the Students Enrolled in the Course: <u>Yes</u> |               |            |
| 28. Originator <u>D. Clayton Mayes</u> Origination Date <u>09/19/16</u>                                                                        |               |            |