Miami Dade College

Course Competencies Template - Form 112

GENERAL INFORMATION	
Name: Gabriel A. Hernandez and Samantha Lewis	Phone #: 305-237-8072
Course Prefix/Number: CJT - 1111	Course Title: Crime Scene Technology II
Number of Credits: 3	

Degree Type:	☐ B.A. ☐ B.S. ☐ B.A.S ☒ A.A. ☒ A.S. ☐ A.A.S. ☐ C.C.C. ☐ A.T.C. ☐ C.T.C.(V.C.C.)
Date Submitted/Revised:	Effective Year/Term: 2009-1

☒ New Course Competency   ☐ Revised Course Competency

Course to be designated as a General Education course (part of the 36 hours of A.A. Gen. Ed. coursework): ☐ Yes   ☒ No

The above course links to the following Learning Outcomes:

☒ Communication   ☐ Social Responsibility
☒ Numbers / Data   ☐ Ethical Issues
☒ Critical thinking   ☒ Computer / Technology Usage
☒ Information Literacy   ☐ Aesthetic / Creative Activities
☐ Cultural / Global Perspective   ☐ Environmental Responsibility

Course Description (limit to 50 words or less, **must correspond with course description on Form 102**):
This course covers advanced principles, theories and applications in crime scene technology. Students will learn specialized collection procedures of weapons, arson, gun shot residue, blood spatter, and recovery of buried bodies and surface skeletons are also included. Data analysis, reporting and plan of action development are emphasized. Prerequisite: CJT1110 (3 hr. Lect)

Prerequisite(s): CJT - 1110	Co requisite(s): None

Course Competencies: (for further instruction/guidelines go to: http://www.mdc.edu/asa/curriculum.asp)

Competency 1: The student will demonstrate knowledge of illicit drug analysis by:
1. Reviewing techniques for the collection and preservation of drug evidence.
2. Describing the laboratory tests used for drug identification.
3. Listing the instrumentation used for drug identification.

Competency 2: The student will demonstrate knowledge of forensic toxicology by:
1. Describing the design of the breathalyzer.
2. Reviewing preservation of blood sample for analysis of alcohol content.
3. Describing techniques used in analysis of substances, drugs, and poisons.

Competency 3: The student will demonstrate knowledge of hair and fiber evidence by:
1. Explaining hair and fiber evidence collection.
2. Listing properties of hairs and fibers
3. Analyzing hairs and fibers for forensic comparisons.

Competency 4: The student will demonstrate knowledge of non-biological evidence by:
1. Describing the collection and preservation of non-biological evidence.
2. Comparing glass fragment pattern analysis.
3. Listing the properties of soils.
4. Comparing paint evidence.

Revision Date: _____

Approved By Academic Dean Date: _____   Reviewed By Director of Academic Programs Date: _____

Competency 5: The student will demonstrate knowledge of biological evidence by:
1. Listing procedures for the preservation of biological evidence.
2. Describing tests used to characterize biological evidence.
3. Explaining methods used for DNA analysis.
4. Utilizing DNA databases.

Competency 6: The student will demonstrate knowledge of fire investigations by:
1. Recognizing accelerant-initiated fires.
2. Describing physical evidence collection at an arson crime scene.
3. Describing procedures for hydrocarbon residue analysis.

Competency 7: The student will demonstrate knowledge of explosion investigations by:
1. Listing commercial, homemade, military, and natural explosives.
2. Describing physical evidence collection at an explosion crime scene.
3. Listing laboratory tests employed for the detection of explosives.

Competency 8: The student will demonstrate knowledge of documentation analysis by:
1. Listing guidelines for the collection and comparison of documents.
2. Discussing techniques utilized for uncovering alterations, erasures, obliterations, and variations in documentation analysis.

Competency 9: The student will demonstrate knowledge of computer forensics by:
1. Describing the procedures for preserving computer evidence at a crime scene.
2. Differentiating between visible and latent computerized data.
3. Listing the areas of the computer that will be examined for the retrieval of forensic data.

Competency 10: The student will demonstrate knowledge of internet crime scenes by:
1. Locating areas where a user's internet activities can be investigated.
2. Describing how internet evidence can be traced and recovered.
3. Discussing how investigators may pinpoint the origin of a hacker.