

GENERAL INFORMATION			
Name: Rosa M. Fernandez/Michael Boulos	Phone #: 305-237-8451		
Course Prefix/Number: CHS-2XXX	Course Title: Forensic Science II		
Number of Credits: 3			
Degree Type :	<input type="checkbox"/> B.A. <input type="checkbox"/> B.S. <input type="checkbox"/> B.A.S <input checked="" type="checkbox"/> A.A. <input checked="" type="checkbox"/> A.S. <input type="checkbox"/> A.A.S. <input checked="" type="checkbox"/> C.C.C. <input type="checkbox"/> A.T.C. <input type="checkbox"/> C.T.C.(V.C.C.)		
Date Submitted/Revised:	Effective Year/Term: 2009-1		
<input checked="" type="checkbox"/> New Course Competency <input type="checkbox"/> Revised Course Competency			
Course to be designated as a General Education course (part of the 36 hours of A.A. Gen. Ed. coursework): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
The above course links to the following Learning Outcomes: <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <input checked="" type="checkbox"/> Communication <input checked="" type="checkbox"/> Numbers / Data <input checked="" type="checkbox"/> Critical thinking <input type="checkbox"/> Information Literacy <input type="checkbox"/> Cultural / Global Perspective </td> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> Social Responsibility <input type="checkbox"/> Ethical Issues <input checked="" type="checkbox"/> Computer / Technology Usage <input type="checkbox"/> Aesthetic / Creative Activities <input type="checkbox"/> Environmental Responsibility </td> </tr> </table>		<input checked="" type="checkbox"/> Communication <input checked="" type="checkbox"/> Numbers / Data <input checked="" type="checkbox"/> Critical thinking <input type="checkbox"/> Information Literacy <input type="checkbox"/> Cultural / Global Perspective	<input type="checkbox"/> Social Responsibility <input type="checkbox"/> Ethical Issues <input checked="" type="checkbox"/> Computer / Technology Usage <input type="checkbox"/> Aesthetic / Creative Activities <input type="checkbox"/> Environmental Responsibility
<input checked="" type="checkbox"/> Communication <input checked="" type="checkbox"/> Numbers / Data <input checked="" type="checkbox"/> Critical thinking <input type="checkbox"/> Information Literacy <input type="checkbox"/> Cultural / Global Perspective	<input type="checkbox"/> Social Responsibility <input type="checkbox"/> Ethical Issues <input checked="" type="checkbox"/> Computer / Technology Usage <input type="checkbox"/> Aesthetic / Creative Activities <input type="checkbox"/> Environmental Responsibility		
Course Description (limit to 50 words or less, must correspond with course description on Form 102): This is a continuation of Forensic Science I. Students will learn topics which include but are not limited to: drug identification and toxicology; document analysis; death determination; soil examination methodology; forensic anthropology; tool marks and casts/impressions. Prerequisite: CHS 1XXXC (4 hr. lect)			
Prerequisite(s): CHS-1XXXC	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 drug identification and toxicology as it relates to forensic science by:

1. Identifying the five types of controlled substances.
2. Relating the signs and symptoms of overdose with a specific class of drugs or toxins.
3. Describing the role of toxins in death causation.
4. Conducting drug and urine analysis.
5. Identifying agents that may be used in bioterrorism.

Competency 2: The student will demonstrate knowledge of document analysis as it pertains to forensics by:

1. Describing handwriting characteristics.
2. Identifying the major goals of a forensic handwriting analysis.
3. Describing technologies used in handwriting analysis.
4. Distinguishing among forgery, counterfeiting, and fraudulence.

Revision Date: _____

Approved By Academic Dean Date: _____

Reviewed By Director of Academic Programs Date: _____

Competency 3: The student will demonstrate knowledge of how time and cause of death is determined by:

1. Defining death.
2. Distinguishing among manners of death: natural, accidental, suicidal, and homicidal.
3. Differentiating among cause, manner, and mechanisms of death.
4. Explaining the development of rigor, algor, and livor mortis that occur after death.
5. Calculating approximate time of death.
6. Explaining how environmental factors can be used to estimate time of death.

Competency 4: The student will demonstrate knowledge of sand and soil examination relevant to forensic investigations by:

1. Recognizing various sand and soil types.
2. Describing methods for examining sand and soil samples.
3. Explaining how sand and soil evidence can link suspects to crime scenes.
4. Performing sand and soil analysis.
5. Recognizing the importance of isotope ratios of elements found in microbial communities to the geographic origins of soil samples.

Competency 5: The student will demonstrate knowledge of the field of forensic anthropology by:

1. Describing bone formation.
2. Distinguishing between male and female skeletal remains.
3. Describing the type of evidence that can be deciphered through analyzing bones.
4. Explaining how genetic origin can be determined from facial structures.
5. Describing the role of mitochondrial DNA in bone identification.

Competency 6: The student will demonstrate the use of glass as forensic evidence by:

1. Explaining how glass is formed.
2. Identifying the different types of glass.
3. Describing characteristics and physical properties of glass.
4. Explaining how glass is used as evidence.

Competency 7: The student will demonstrate the use of casts and impressions in criminal investigations by:

1. Distinguishing among latent, patent, and plastic impressions.
2. Describing how foot, shoe, and tire impressions are made.
3. Explaining how types of impressions can be used as trace evidence.

Competency 8: The student will demonstrate knowledge of tool marks in a forensic investigation by:

1. Describing the major types of tool mark impressions.
2. Explaining tool mark examination and analysis.
3. Describing tool mark evidence collection, preservation, and documentation.

Revision Date: _____

Approved By Academic Dean Date: _____

Reviewed By Director of Academic Programs Date: _____