

CHEM 105: The Forensic Chemistry of CSI Summary of Changes

1. Revised the course objectives to include EUSLO's

2.	Revised the detail course outline by removing the topics: Fingerprints, Questioned
	Documents and Firearms and then expanding the time spent on the remaining topics. The
	5 total house that morananiared to those tonian moranant LANA of the commenced in

the original syllabus.

- 3. Revised the point values for the Evaluation items to parallel those used currently in the course.
- 4. Revised the Required test to cite the new edition (2nd) of the textbook.
- 5. Revised the Supplementary text to one that is web-based so that only the essential chapters can be downloaded as PDF files.
- 6 Designed the Diblingmonhy to site many magnet command

CHEM 105: The Forensic Chemistry of CSI Syllabus of Record

I. Ta	Catalog Description
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pni	dence. Chemical concepts, on the level of an introductory chemistry course and their
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compared to how it works in the real world. They will then examine how this comparison is linked to the "CSI Effect". The CSI effect is the belief that watching TV shows such as CSI raises the expectations that jurors and the public have about the value and impact of forensic evidence on criminal trials and investigations.

1. Introduction to Forensic Science and Investigating CSI (1.5 hours)

- a. Forensic Science: fact and fiction
- b. The CSI Effect
- 2. Investigating the Crime Scene (3.0 hours)
 - a. Securing & documenting the crime scene
 - h Collection preservation inventory and transportation of evidence

c. Chain of custody and legal dimensions of evidence

3.Investigating and Processing Physical Evidence (4.5 hours)

- a. The modern crime lab and functions of a forensic scientist
- b. Characteristics of physical evidence

- c. Determining the origin and cause of a fire
- d. Indicators of arson and collection of evidence

12. Drugs of Abuse (3.75 hours)

- a. History of drug regulation and drug dependence
- b. Narcotics, hallucinogens, depressants, stimulants, inhalants, club drugs and steroids
- c. Identification of drugs using presumptive and confirmatory tests
- d. Poisons

13 From #2 (1.25 hamm)

14. Course Wrap Up (1.25 hours)

15. Final Exam (2 hours)

IV. Evaluation Methods:

Exams	300 points
Assigned exercises (problem strategies)	60 points
Report on a fiction book, video or computer game	70 points
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	At	tendance Policy in the IUP Catalog.
	VII.	Required & Supplementary Textbook(s):
		1. Required Text: Criminalistics: Forensic Science, Crime and Terrorism, Second Edition James E. Girard, Jones & Bartlett, Sudbury, MA (2011). This is a chemistry oriented non-science majors textbook that covers a wide variety of forensic science topics.
		2. Supplementary Text: An Introduction to Chemistry, M. Bishop, (Atoms First Edition) Chiral Publishing Company: http://preparators/ahemistry.com/_This is a colf sublished.
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		web-based text. which is used to provide additional material on chemistry topics such as

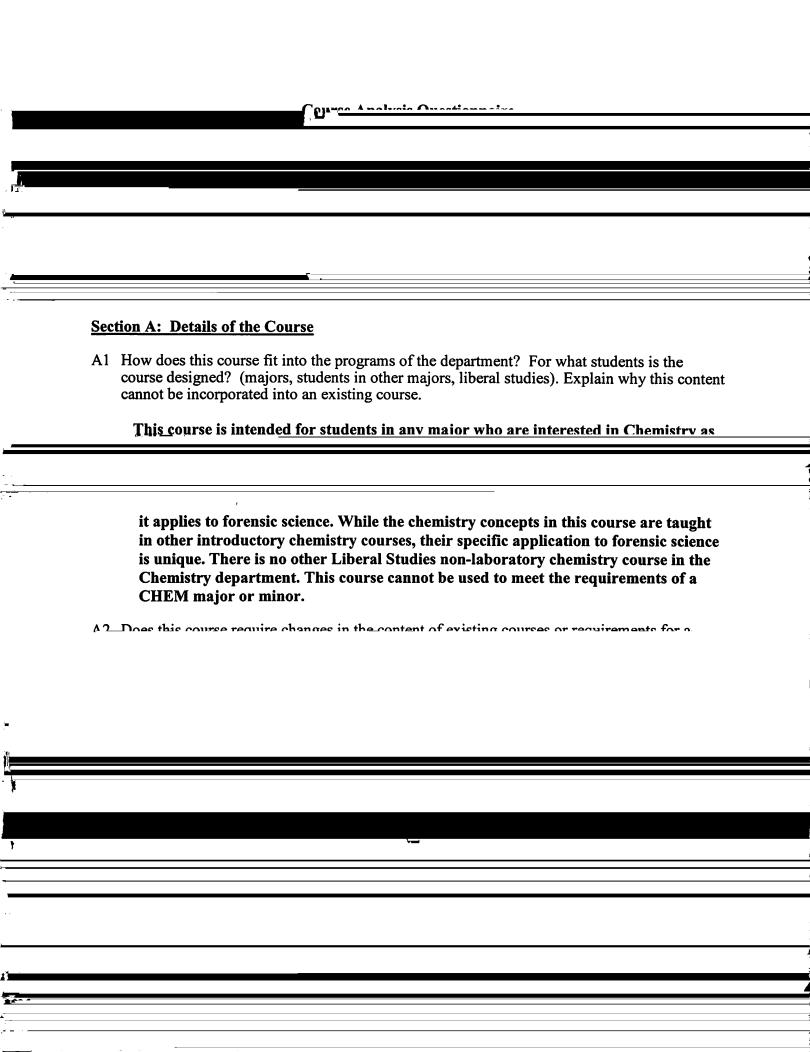
- 11. Investigating Chemistry, Matthew Johll, 2nd Edition. W. H. Freeman: New York (2009)
- 12. Media and Criminal Justice: The CSI Effect, Dennis J. Stevens, Jones and Bartlett, New York (2011)
- - 14. Sherlock Holmes: The Complete Novels and Stories, by Sir Arthur Conan Doyle, Bantam Classics (1986)
 - 15. The Bone Collector by Jeffrey Deaver, Coronet Books (1997)
 - 16. The CSI: NY Virtual Experience in Second Life, http://www.cbs.com/primetime/csi_ny/second_life

On a separate sheet of paper, please answer these questions. (Do not include this sheet or copies of the questions in your proposal; submit only the answers.)

A.	This is not a multi-section, multi-instructor course.
R	The incorporation of women and minorities in the course will leave by by the

B. The incorporation of women and minorities in the course will largely be through the forensic case studies used throughout the course. In the text Criminalisities: Forensic Science, Crime and Terrorism the following case studies in the sections entitled On the Crime Scane focus on minorities and women as nonatrators anxieties of crime scane focus on minorities and women as nonatrators anxieties of crime scane focus on minorities and women as nonatrators anxieties of crime scane focus on minorities and women as nonatrators anxieties of crime scane focus on minorities and women as nonatrators anxieties of crime scane focus on minorities and women as nonatrators anxieties of crime scane focus on minorities and women as nonatrators are crime and the course.

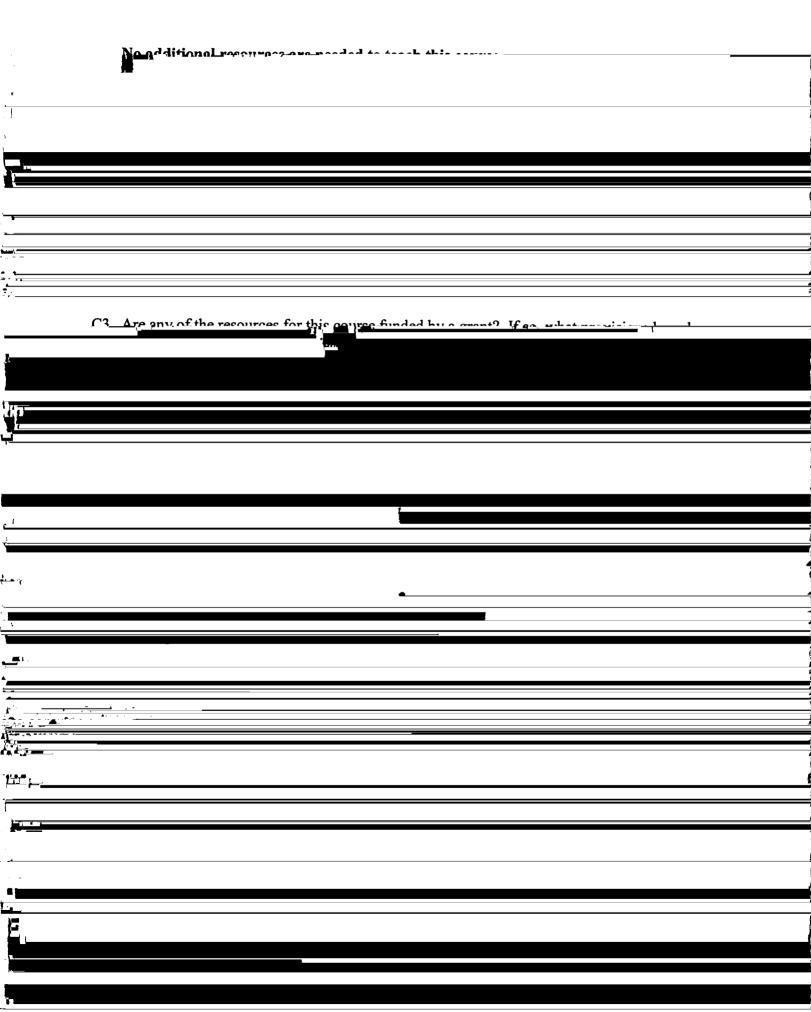
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	Jon Benet Ramsey (Chapter 1), O.J. Simpson (Chapter 1), Enrique Camarena Salazar
	(Chapter 2), Rebecca O'Connell (Chapter 3), Kristen Lea Harrison (Chapter 4).
	Émilita Reeves (Chapter 8), Joann Curley (Chapter 9), Earl Washington, Jr. (Chapter 14).
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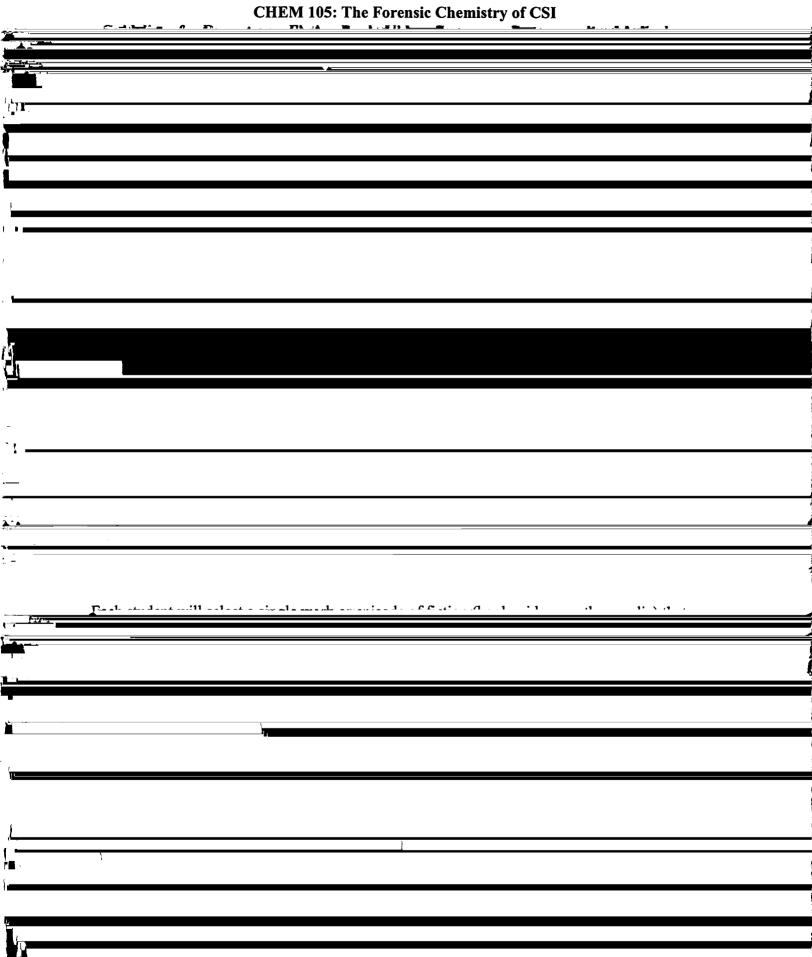


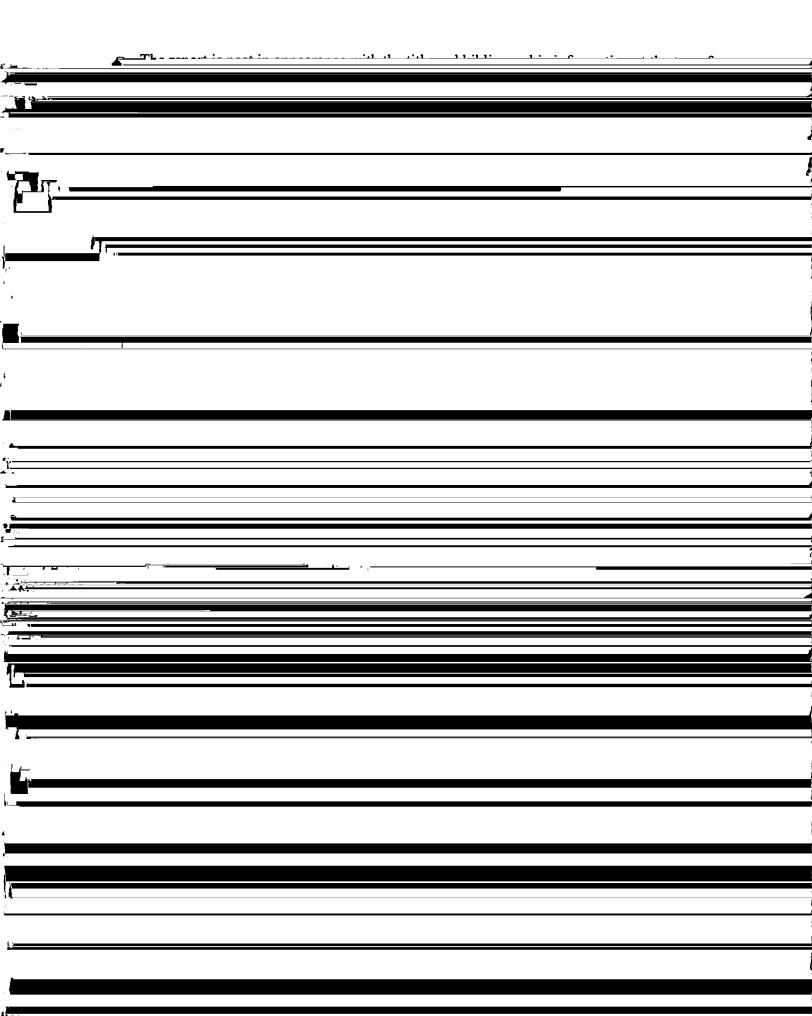
<i>2</i> .	Westminister College, Sci 150, Helen Boylan, Introduction to Forensic Science
<i>3</i> .	Bloomsburg University of PA, CHEM 52.105, Michael Pugh, Introduction to
	Forensic Science

A7 Is the content, or are the skills, of the proposed course recommended or required by a professional society, accrediting authority, law or other external agency? If so, please provide documentation.

Sect	No. the content of this course is not required by any external agency. professional
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	ion B: Interdisciplinary Implications
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DI	Will this course be taught by instructors from more than one department? If so, explain the
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	The paper is word-processed and either printed on 8 1/2 x 11 inch paper or sent as an MS Word document. There should be no spelling of grammatical errors, the paper should
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