

CJ 366-03 Forensic Science Fall 2007



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Class Hours: TU: 6:00-8:50
Classroom: TUC 106
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DO NOT EMAIL ME THROUGH
BLACKBOARD! (It rarely works)

Directions to The University Center: <http://www.tuc.edu/directions.htm>

Office Hours (TUC Room 106):

Tuesday: 5:00-6:00 PM; and after class.
Other times by appointment.

Office Hours (C-218 CJ Center):

I will also be available to meet on the SHSU Campus on
Wednesdays prior to between 10:00 AM and 3:00 PM by
appointment.

Office hours are subject to change with notice. I am always available at other times, on either campus, by appointment. I will be happy to respond to questions by email, but I reserve the right to answer class emails during office hours, so please plan accordingly.

REQUIRED TEXTBOOKS

Gaensslen, R. E., Harris, H. A. & Lee, H. C. (2008). *Introduction to forensic science and criminalistics*. NY: McGraw-Hill. (ISBN: 0-07-298848-7).

Keppel, R. D., Brown, K. M., & Welch, K. (Eds.). (2007). *Forensic pattern recognition: From fingerprints to toolmarks*. Upper Saddle River, NJ: Prentice Hall. (ISBN: 0-13-232948-4).

COURSE DESCRIPTION

This course explores forensic specialties in the criminal justice system. The course is intended to introduce non-science majors to Forensic Science disciplines and techniques. The ways in which the physical and social sciences are applied to law, criminal investigation, and the administration of justice will be addressed. Course topics include: fingerprint analysis, shoe and tire impression analysis, crime scene investigation, criminalistics, DNA analysis, forensic psychology, criminal profiling, scientific expert testimony, medico-legal death investigation, and current events

involving forensic science. Students will also work together in groups during hands on exercises in crime scene staging and processing.

LEARNING OBJECTIVES

The course objectives are:

- 1) To develop an understanding of the definition of Forensic Science -- with awareness of academic, professional, and pop cultural perspectives.
- 2) To explore the nexus between science and law.
- 3) To offer an overview of the range of disciplines, specialty areas, and applications generally included under the heading of Forensic Science.
- 4) To foster an informed understanding of scientific principles, terminology, and technical advances crucial to the different areas of Forensic Science.
- 5) To explore issues of ethics and morality at the interface of Criminal Justice and Forensic Science.
- 6) To provide foundation for informed consumption of news media, current events and scientific discourse as they relate to Forensic Science, Law and Criminal Justice.
- 7) To encourage and provide opportunity to articulate learned material via exams, written reports, exercises and/or class discussion.

ATTENDANCE POLICY

Attendance is highly important because discussion groups, and in class assignments will be assessed throughout the session. The student is expected to attend all classes and actively participate in class discussions. Because of this, students must complete the assigned readings prior to the scheduled class meeting to contribute to meaningful class discussions.

Class attendance is mandatory and attendance requirements will be followed in accordance with Academic Policy Statement 800401. Attendance will be recorded pursuant to University policy. Penalties for absences will be governed by rules promulgated by the University. A student may be penalized for more than three hours of absence at the discretion of the instructor. It is the responsibility of the student to monitor number of absences.

Accordingly, the instructor will deduct points from the final grade based on the following scale:

3 absences = 10 point reduction in final grade

4 absences = 20 point reduction in final grade

5 + absences = 30 point reduction final grade

Student Absences on Religious Holy Day Policy

Section 51.91 (b) of the Texas Education Code requires that an institution of higher education excuse a student from attending classes or other required activities, including examinations, for the observation of a religious holy day, including travel for the purpose. A student whose

absence is excused under this subsection may not be penalized for that absence and shall be allowed to take an examination or complete an assignment from which the student is excused within a reasonable time after the absence.

University Policy 861001 provides the procedures to be followed by the student and instructor. A student desiring to absent himself/herself from a scheduled class in order to observe (a) religious holy day(s) shall present to each instructor involved a written statement concerning the religious holy day(s). This request must be made within the first fifteen days of the semester or the first seven days of a summer session in which the absence(s) will occur. The instructor will complete a form notifying the student of a reasonable time frame in which the missed assignments and/or examinations are to be completed.

For the official university policy on student absences on religious holy days, see:
<http://www.shsu.edu/catalog/scholasticrequirements.html#holyday>.

GRADES

GRADING POLICY:

A = 90-100%
B = 80-89%
C = 70-79%
D = 60-69%
F = Below 60%

Class Participation and In-Class Exercises: (15%)

Students will receive grade based upon attendance, participation in class discussions, and completion of assignments.

Students are expected to have read the chapters prior to class lecture/discussion so that any questions may be clarified and meaningful class discussion may be conducted. **In-class/Homework Assignments:** In addition to class participation, students are required to complete any in-class and homework assignments which may be assigned.

In addition, students are required to regularly access the blackboard portal to check for announcements, assignments, and additional readings for this class.

Staging and Processing Exercise and Reports (60%)

The following Exercises and written reports will be conducted on two separate days at the end of the semester. Any student who will not be in attendance for any portion of the staging or processing exercise due to a work commitment or family emergency must complete a 5-7 page paper on a forensic science topic to be agreed on by the instructor and the student for each portion of the exercise missed. Absences must be documented (barring extreme emergency) in advance. These exercises are group exercises and your absence not only affects yourself, but others.

More detailed instructions will follow, but the Staging and Processing Exercise reports will consist of the following requirements:

Crime Scene Staging: (30%): Each group member should turn in a report which will contain the following:

- 1) Summary of the important elements of the crime scene your group constructed. Photos and a listing of elements are expected.
 - a. This portion may be turned in as a group.
- 2) An evaluation of group who processed your crime scene.
 - a. This portion may be turned in as a group
- 3) A performance review of each of your team members and their contribution to the staging process and preparation of the group report.

Crime Scene Processing: (30%)

- 1) Summary of the important elements of the crime scene your group processed.
 - a. This may be turned in as a group.
- 2) Any photos, sketches, documented evidence and method to be used to process evidence collected at the crime scene.
 - a. This may be turned in as a group.
- 3) A performance review of each of your team members and their contribution to the processing process and preparation of the group report.

As in all aspects of academic work, absolute honesty is expected. The instructor reserves the right to ascertain the integrity of any written work by submitting it to TURNITIN or other screening programs for verification.

Assignment Submissions: Submit a hard copy to the instructor in class, and electronic copy by email.

Final Exam - Staging and Processing Critique Presentation and Report: (25%)

During the scheduled time for the final examination, Staging Groups will present their critiques and written reports on the group which processed their staged crime scene.

Extra Credit: In general, extra credit opportunities will not be given, but may be offered at the instructor's discretion. However, if an extra credit opportunity is extended to one student, then all students will be given the opportunity to complete the same assignment for extra credit.

ACADEMIC HONESTY

The Faculty of the College of Criminal Justice expects students to conduct their academic work with integrity and honesty. Acts of academic dishonesty will not be tolerated and can result in

the failure of a course and dismissal from the University. Academic dishonesty includes, but is not limited to, cheating on a test, plagiarism, collusion – the unauthorized collaboration with another person in preparing work offered for credit, the abuse of resource materials, and misrepresentation of credentials or accomplishments as a member of the college.

The University's policy on academic honesty and appeal procedures can be found in the manual entitled Student Guidelines, distributed by Division of Student Services. (Reference Section 5.3 of the SHSU Student Guidelines)

For the official university policy on academic honesty, see:
<http://www.shsu.edu/administrative/faulty/sectionb.html#dishonesty>.

ACADEMIC SERVICES AT SHSU

Student Advising and Mentoring Center: Located on the second floor of Academic Building IV (south of the Lee Drain Building, corner of Avenue I and Bowers Blvd.); SAM Center offers academic counseling and enrichment services to all undergraduate and graduate students. The Student Advising and Mentoring Center is a resource dedicated to helping students adjust to academic life at Sam Houston State University. The Center offers advising aid (see Academic Advising), with time management and/or study skills, career testing, tutoring and workshops on an array of academic and technological resources. The SAM Center can be contacted by e-mail at samcenter@shsu.edu or by telephone, (936) 294-4444. For more information refer to the Catalog.

The **Writing Center** helps all University students, staff, faculty, and community members. It was created to help individuals become better writers and develop more confidence in their writing abilities. To this end, it provides one-on-one and small group writing instruction and one-session workshops throughout the school year. The Writing Center <http://www.shsu.edu/~wctr/> is located in Farrington 111. The Writing Center can be contacted by e-mail at wctr@shsu.edu or by telephone, (936) 294-3680.

The **Testing Center**, located at AB4 102 offers a variety of college entrance, vocational, guidance, state-mandated and/or placement exams including Quick THEA, THEA, ACCUPLACER, ACT, SAT, LSAT, GRE, EXCET, DANTE and CLEP testing. The Testing Center can be contacted by e-mail at test.ctr@shsu.edu or by telephone (936) 294-1025.

DISABLED STUDENT POLICY

Students with a disability which affects their academic performance are expected to arrange for a conference with the instructor in order that appropriate strategies can be considered to ensure that participation and achievement opportunities are not impaired. The physically impaired may contact the Director of the Counseling Center as chair of the Committee for Continuing Assistance for Disabled Students by telephone (936) 294-1720.

For services for disabled students, see <http://www.shsu.edu/schedule/>.

CLASS CONDUCT

General Conduct

All students are expected to be respectful to others and the instructor at all times. Class discussions may include sensitive and/or controversial topics. Students should be respectful of others' viewpoints and opinions, even those that they may not agree with. Any conduct deemed by the instructor to be disruptive to the class may result in the student's removal from the class. The removal will count as an unexcused absence. Excessive tardiness (2+) without a legitimate excuse may be counted as an unexcused absence at the discretion of the instructor.

Tobacco Products

No tobacco products allowed in the classroom at any time. Violations will result in the student's removal from the class and the removal will count as an unexcused absence.

Use of Electronic Devices in the Classroom

- **Turn off all cell phones, pagers, iPods, and any other distracting device prior to class. This means no text messaging during class! If you need to have access to your phone for work or another emergency purpose, you must set the device to silent or vibrate and notify the instructor prior to the start of class.**
- Laptops may be used in class, for class purposes only! No email or IM services may be accessed unless prior approval is obtained from the instructor.
- Violations will result in the student's removal from the class and the removal will count as an unexcused absence.

COURSE SCHEDULE

The anticipated schedule of lectures, readings, assignments, and examinations is as follows:

- August 21: **Introduction to Course**
 Introduction to Forensic Science
 Reading Assignment: Gaensslen Chapters 1-3
- August 28: **Green River Killer Presentation**
 Reading Assignment: Gaensslen Chapters 3-4
- September 4: **Physical Evidence and the Legal System**
 Crime Scene Processing and Analysis
 Reading Assignment: Gaensslen Chapter 5, Keppel Chapters 2-3
- September 18: **Reconstruction Patterns**
 Physical Pattern Evidence
 Reading Assignment: Gaensslen Chapter 6, Keppel Chapters 1, 4
 Staging and Processing Group Assignments
- September 25: **Fingerprint Analysis**
 Fingerprint lab
 Reading Assignment: Gaensslen Chapter 7
- October 2: **Questioned Documents**
 Impression Evidence lab
 Reading Assignment: Gaensslen Chapter 8, Keppel Chapter 5
 Staging Proposals Due
- October 9: **Toolmarks and Firearms**
 Reading Assignment: Gaensslen Chapter 9
- October 16: **Blood and other Biological Evidence**
 Reading Assignment: Gaensslen Chapter 10
- October 23: **DNA Analysis and Typing**
 Reading Assignment: Gaensslen Chapter 11
- October 30: **Arson and Explosives**
 Reading Assignment: Gaensslen Chapter 12
- November 6: **Drug Analysis and Forensic Toxicology**
 Reading Assignment: Gaensslen Chapter 13

COURSE SCHEDULE CONTINUED

- November 13: **Materials Evidence**
Assignment: Make arrangements to get together with group to divide up responsibilities for final staging and processing
- November 20: **STAGING AND PROCESSING PLANNING DAY**
- November 27: **Crime Scene Staging and Processing Day**
Group 1 – Indoor Staging/Group 3 Processing
Group 2 – Outdoor Staging/Group 4 Processing
Report due on December 11, 2007
- December 4: **Crime Scene Staging and Processing Day**
Group 4 – Indoor Staging/Group 2 Processing
Group 3 – Outdoor Staging/Group 1 Processing
Report due on December 11, 2007
- December 11: **Final Exam - Staging and Processing Critique (8:00 PM to 10:00 PM)**
The staging and processing reports will be formally presented in class during the regularly scheduled time for the course final exam. These presentations will be graded and count as your final exam grade. **Grades will be posted by 9:00 AM on Monday, December 19, 2007**

CJ 366-03
Forensic Science
Fall 2007



My signature below indicates that I have read and understand this syllabus and have been given a copy of my own to keep.

Student Signature

Date

Print Name