

Department of Justice Studies  
 FS 162  
 Forensic Science Applications  
 Spring 2023

Instructor	Mark Barash
Contact Information	Email: <a href="mailto:mark.barash@sjsu.edu">mark.barash@sjsu.edu</a> Phone: 408-924-5513
Office Location and Hours	HB 216 or Zoom <a href="https://sjsu.zoom.us/j/6339297999">https://sjsu.zoom.us/j/6339297999</a> Drop in: Thr 3-6pm
Canvas Course Website	<a href="https://sjsu.instructure.com/courses/1557166">https://sjsu.instructure.com/courses/1557166</a> Login using your Tower ID & DUG DQG 3DVVZRUG : &RXUVHV : )6
Lecture/Practical Days/Time	Monday 12pm-1:45pm (Lec); 2:00pm-3:45pm (Act), HB 207
Prerequisites	3 UHUHTXLVLWHV )6 )6 -6 RU )6 0DMR
FS Library Liaison	Nyle Monday- <a href="mailto:nyle.monday@sjsu.edu">nyle.monday@sjsu.edu</a>
FS Lib Guide	<a href="http://libguides.sjsu.edu/content.php?pid=57768&amp;sid=2450175">http://libguides.sjsu.edu/content.php?pid=57768&amp;sid=2450175</a>
FS Program Website	<a href="http://www.sjsu.edu/justice-studies">www.sjsu.edu/justice-studies</a>

Course Description

This course is designed to provide students with a comprehensive understanding of forensic science applications. The course covers the scientific principles and methods used in the investigation and analysis of physical evidence. Topics include the collection, preservation, and analysis of various types of evidence, such as fingerprints, DNA, and trace evidence. The course also explores the legal aspects of forensic science, including the role of forensic scientists in the criminal justice system and the ethical considerations that govern their work. Students will gain practical experience through laboratory exercises and case studies. The course is intended for students who are interested in pursuing a career in forensic science or law enforcement.

Disclaimer: This class is intended for mature students and may cover graphic content, such as criminal cases, discussions, and/or topics. Most of the material presented will NOT be censored. Under NO CIRCUMSTANCES are students permitted to take photos of the lecture slides and/or photos. Failure to comply with these guidelines may result in academic penalty.

2XWOLQHV ZLOO EH SURYLGHG RU PDGH DFFHVVLEOH YLD & D will be discussed.

Note )6 LV req... ZHOO DV WKH )6 PLQRURU, V6 LPD... UHOHYDQFH RI IRUHQVLF VFLHQFH WR YDULRXV ODZ HQIRUFH +RZHYHU LW LV RSHQ WR DQ\ VWXGHQW ZLWK D JHQHUDO LO

Course Learning Outcomes (CLOs)

8SRQ VXFFHVVIXO FRPSOHWLRQ RI WKLV FRXUVH VWXGHQWV CLO 1 ([SODLQ WKH 6FLHQWLIL\ FKDUDFWHULVWLFV RI HYLGHQFH LGHQWLILFDWLRQ L SUREDWLYH YDOXH DQG SUREDELOLW\ DV ZHOO DV RWKHU '1\$ ILQJHUSULQWLQJ WKH SULQFLSOHV RI '1\$ SURILOL NQRZOHGJH WR D UHDOLVWLF ILHOG ODERUDWRU\ H[HUFW CLO 2 E[HFXWH ILHOG DQG ODERUDWRU\ WR V... knowledge, skills and techniques HTXLSHU SRU K... instruments. CLO 3 & ODVVL\ HYLGHQFH DFFRUGLQJ WR WKHLU SK\VLF DSSURSULDWH DQDO\VLV WHFKQLTXHV IRU SDWWHUQ VHV KXPDQ DQG ELWH PDUN LGHQW... CLO 4 \$QDO\]H DQG FULWLFDOO\ HYDOXDWH IRUHQVLF HUU science.

Assignments

1. Exams(30%): There will be two midterms (20%) DQG RQ... that will include questions such as PXOWLSOH FKRLFH ILOO... diagrams. (C
2. Chapter Review Questions and Quizzes(30%) WKHUH ZLOO EH FK... UHYL periodic quizzes (10%) DW WKH HQG RI HDFK ZHHN WRSLF (CLO1, CLO3)
3. Immersive Simulations, Practical Exercises and Reports(35%); I PPHU... and lab practicals(30%) will FRY... 3K\VLFDQ )LW 4XHVWLRQHG 'RFXPHQWV 6WDE /DE +XPDQ 3DWWHUQ (YLGHQFH DQG \$QWKURSRPHWU\ /2 /DE UHS VFLHQWLILF UHSRUWV DQG FRQVLVW RI LQGL... CLO2, CLO3, CLO4).
4. Discussion Board (5%): 6WXGHQWV ZLOO UHVSRRG VXEVWDQWLYHO\ W RQ YDULRXV IRUH... (CLO-1).QFH

All assignments are graded based on logic.

Required Texts and Materials

% H O O 6 Forensic Science: An Introduction to Scientific and Investigative Techniques. 5  
 Edition, CRC Press. 7 K H W H [ W E R R N L V D Y D L O D E O H I R U I U H H I U R P W K  
 Additional materials Z L O O E H S R V W H G R Q & D Q Y D V , W L V W K H V W X G H  
 new postings.

Grading Scale for All Assignments

A plus	97-100
A	94-96.9
A minus	90-93.9
B plus	87-89.9
B	84-86.9
B minus	80-83.9
C plus	77-79.9
C	74-76.9
C minus	70-73.9
D plus	67-69.9
D	64-66.9
D minus	60-63.9
)	<60

\$ O O D V V L J Q P H Q W V D U H J U D G H G E D V H G R Q D G K H U H Q F H W R G  
 and logic.

Note: A grade of C or better is required for all >>BDC -0.003 Tc e4(84)Tj (-84)Tj (-84)T2)4)Tj8(e f)-1(-0

Student Resources

Forensic Science Student Group (FSS)

)RUHQVLF 6FLHQFH 6WXGHQV WQLWR DFDXVXJURQWV LQWHU  
JURXS PHHWV ELZHHNO\ GXULQJ WKH VPHVWHUODDQG RIFMU  
QHWZRUNLQJ RSSRUWXQLWLHV DQG PHQRUVKLS @PEHUV  
&6, FDPSV JXHVW VSHDNLQJ HXWUDUQWRWKUHH[W]@3HI  
VFLHQFH VWXGHQWV LQ QDYLJDWLQJ WKH PDMRU XQGHUVD  
choices in their college careers. Mentors\ DOVR RIIHU OLPLWHG WXWRULQJ  
SURIHVVLHQDO RSSRUWXQLWLHV &RQWDFW

OLPLWHG WR YLUWXDO PHHWLQJV ~~SRQGXQWLR~~ TXUWKGD\QR  
LQIRUPDWLRQ \_\_\_\_\_ : HEVLWH <https://www.sjsu.edu/access/>

SJSU Writing Center

7KH 6:08 WLQJ & HQWHU ORFDWHG LQ 5RRP LQ & ODUN + DOO  
become better writers, including one-one tutoring sessions and numerous writing workshops. All  
VHUYLFHV DUH IUHH IRU 6-68 VWXGHQWV <http://www.sjsu.edu/writingcenter>

Academic Integrity

7KH 8QLYHUVLW\ \$FDGHP2 at [KQWISJUZWZ 3MOXFHGXS](#) requires  
you to be honest in all your academic course work. I20 <00-(i)- in u.ed79Tc -0.004 Tw>(ab) (t)0)38

FS 162 Forensic Science Applications Spring 20 Course Schedule

%HOO -DPHV ;1RUGE\ %HOO

10	4/03/23	)RUHQWURORJ\	Lab7 3 UHVXPSWLYHsewnt/ VDOLYD Pipetting / 6 (at home) 7HUPLQRORJ\ 4XL]	Ch 9 DW KRPH
	4/10/23		Chapter 9 5HYLHZ 4XHVWLRQV	DW KR

11

2D.4Wm/>20>Ti14-7r4 Tm.248f 11.04 0< 9 >>BD87 f 10 0 11.30056>8.6 <.7 4/da/671.52 Tm [ <m [(4/ <656D>0/