Fingerprint Analysis Laboratory
FS 642L
Fall 2015

Instructor: Nick Harrison   **Time:** 1430-1720
Contact: nicholas.harrison@chaminade.edu   **Days:** Thursday
Office: Henry Hall 3   **Room:** Henry Lab 5
Office Hours: MWF 0900-1000, TTh 0900-1030, or by appointment

This is a graduate-level laboratory course designed to give students hands-on experience in the development and comparison of fingerprints. It must be taken concurrently with FS 642, the Fingerprint Analysis lecture course.

OBJECTIVES:

Upon completion of this course and the accompanying laboratory, students will be able to:

1. Describe the biological origin and makeup of fingerprints
2. Obtain known prints from living and deceased persons
3. Visualize and recover latent prints using both physical and chemical methods
4. Properly document latent fingerprints and subsequent comparisons
5. Conduct latent print comparisons
6. Operate an Automated Fingerprint Identification System
7. Produce demonstrative exhibits for court

TEXT:

Daluz, H. Fundamentals of fingerprint analysis. Boca Raton: CRC Press; 2014. 340 p. ISBN-13: 978-1466597976

This book is required for the course and reading it is your responsibility. Material from this text will be used for both lecture examination and laboratory purposes.

Optional Texts:

Daluz, H. Fingerprint analysis laboratory workbook. Boca Raton: CRC Press; 2014. 128 p. ISBN-13: 978-1466597891

Scientific Working Group on Friction Ridge Analysis, Study and Technology (SWGFAST) et al. The fingerprint sourcebook [Internet]. Washington (DC): National Institute of Justice; 2011 [cited 2014 Jan 11]. ISBN-13: 978-1477664766. Available from http://www.nij.gov/publications/pages/publication-detail.aspx?ncjnumber=225320

Syllabus is subject to change at the instructor's discretion

ATTENDANCE:

Since you will be submitting assignments at the end of some laboratory sessions for credit towards your final grade, attending class is highly advised. No points will be awarded for unsubmitted assignments, obviously, and you will not be able to complete the assignments if you are not in class. Under extenuating/emergency circumstances, absences may be excused if documentation is provided or if approved prior to the class period. In such cases, I will do my best to accommodate alternate arrangements for completing assignments, but I can make NO GUARANTEES. Repeated absences will be reported to counseling and will result in possible removal from the course as per the CUH Student Handbook.

CELL PHONES AND MUSIC DEVICES:

Unless specifically permitted by your instructor, use of cell phones and music devices is prohibited during all Natural Science and Mathematics classes at Chaminade, as it is discourteous and may lead to suspicion of academic misconduct. I would ask that cell phones be either turned off or put on silent mode while in the classroom. I am not necessarily opposed to you periodically checking your phone as long as it is not disruptive to your fellow classmates or me. If it becomes disruptive, I will ask you to turn off your phone. Students unable to comply with the instructor's requests will be asked to leave class. Use of cell phones is strictly prohibited during examinations.

ADA ACCOMMODATIONS:

Students with special needs who meet the criteria for the Americans with Disabilities Act (ADA) provisions must provide written documentation of the need for accommodations from CUH Counseling Center (Dr. June Yasuhara, 735-4845) by the end of the third week of classes. Failure to provide written documentation will prevent your instructor from making necessary accommodations. Please refer any questions to the Dean of Students and review procedures at:
www.chaminade.edu/student_life/sss/counseling_services.php

COMPUTERS:

The use of computers in this class is encouraged, provided they are used for the class. Doing other things on the computer such as other class work or surfing the internet is not acceptable.

DRESS CODE:

This course is conducted in a laboratory. The following dress code and rules apply while in the lab:

1. Closed-toe shoes

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2. Lab coat when performing hands-on exercises
3. Safety glasses/gloves when instructed
4. No eating, drinking, or gum chewing

GRADING:

Students will be graded on laboratory exercises and a practical exam, which will consist of latent print processing, AFIS searches, latent print comparisons, reports, and a courtroom display.

Final grades for the laboratory course will be determined as follows:

Laboratory Exercises: 25%
Practical Exam: 75%

GRADING SCALE:

90 - 100% A
80 - <90% B
70 - <80% C
60 - <70% D
<60%   F

Numerical grades containing decimal points **will not** be rounded up during the conversion to letter grades.

SCHEDULE:

Aug 27:   Course Introduction & Syllabus
                 Video: Nova - "Forensics on Trial"
                 (http://www.pbs.org/wgbh/nova/tech/forensics-on-trial.html)
                 Video: Visible Proof (https://vimeo.com/80313296, password = proof)

Sept 3:   Latent Print Processing (Non-porous Substrates)

Sept 10:   Latent Print Processing (Porous Substrates)

Sept 17:   Latent Print Processing (ALS), Recording Exemplar Fingerprints

Sept 24:   Assignment #1 - Fingerprint Classification (Henry and NCIC)

Oct 1:   Assignment #2 - Comparison Exercise 1

Oct 8:   Assignment #3 - Comparison Exercise 2

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Oct 15:   Assignment #4 - Comparison Exercise 3

Oct 22:   Palm Print Orientation Exercise

Oct 29:   Assignment #5 - Comparison Exercise 4 (CTS Proficiency Test)

Nov 5:   Practical Examination

Nov 12:   Practical Examination

Nov 19:   Practical Examination

Nov 26:   **NO CLASS (Thanksgiving)**

Dec 3:   Practical Examination

<u>DUE</u>: **FINAL PRODUCT OF PRACTICAL EXAMINATION**

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