

Fingerprint Analysis
FS 642
Spring 2015

Instructor: Nick Harrison	Time: 1100-1220
Contact: nicholas.harrison@chaminade.edu	Days: TTh
Office: Henry Hall 3	Room: Henry Lab 5
Office Hours: MWF 0900-1000, TTh 0900-1030, or by appointment	

This is a graduate-level course designed to encompass numerous aspects of fingerprint science including history, friction ridge skin anatomy, latent print processing techniques, fingerprint comparisons, report writing, and courtroom preparation. It must be taken concurrently with FS 642L, the Fingerprint Analysis Laboratory 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 (Recommended) Text:

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]. Available from <http://www.nij.gov/publications/pages/publication-detail.aspx?ncjnumber=225320>

ISBN-13: 978-1477664766

Syllabus is subject to change at the instructor's discretion

ATTENDANCE:

Students are expected to be in class and to be on time. Repeated absences will be reported to counseling and will result in possible removal from the course, as per the Chaminade 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/ssc/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.

ASSIGNMENTS / GRADING:

Five fingerprint analysis/comparison assignments will be issued throughout the semester. These assignments are intended to be completed during the laboratory periods or outside of class.

Students are also required to write a term paper, which is due the penultimate week of classes (April 23). Details to be discussed in class.

In addition, there will be two written midterm examinations.

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

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Assignments: 25%
Midterm Exam #1: 25%
Midterm Exam #2: 25%
Term Paper: 25%

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:

note: 1st/black set of chapters = required text; [2nd/blue set of chapters](#) = optional text

Jan 13: Course Introduction and Syllabus
Jan 15: History [Chapter 2] [[Chapter 1](#)]
Jan 20: Fingerprint Processing Techniques (Part 1) [Chapter 6, Chapter 8, Chapter 10] [[Chapter 7](#), [Chapter 8](#)]
Jan 22: Fingerprint Processing Techniques (Part 2) [Chapter 12]
Jan 27: Fingerprint Processing Techniques (Part 3) [Chapter 11, Chapter 13]

Term Paper Topics Available

Jan 29: Alternate Light Sources and Photography [Chapter 9] [[Chapter 7.10](#), [Chapter 8.5.3](#)]
Feb 3: Recording Friction Ridge Exemplars [Chapter 5] [[Chapter 4](#)]
Feb 5: Anatomy and Morphology of Friction Ridge Skin [Chapter 3] [[Chapter 2](#), [Chapter 3](#)]
Feb 10: Fingerprint Pattern Classification [Chapter 4] [[Chapter 5](#)]
Feb 12: Review

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- Feb 17: **MIDTERM EXAM #1 [Jan 15 - Feb 5]**
- Feb 19: ACE-V and Fingerprint Comparisons (Part 1) [Chapter 16] [\[Chapter 9\]](#)
- Feb 24: ACE-V and Fingerprint Comparisons (Part 2)
- Feb 26: ACE-V and Fingerprint Comparisons (Part 3)
- Mar 3: Smart Searching: Comparison Time Savers
- Mar 5: Palm Prints [Chapter 17]
- Mar 10: Palm Print Orientation Exercise
- Mar 12: Palm Print Orientation Exercise (continued)
- Mar 17: Review
- Mar 19: **MIDTERM EXAM #2 [Feb 10 - Mar 12]**
- Mar 24: **NO CLASS (Spring Recess)**
- Mar 26: **NO CLASS (Spring Recess, Prince Kuhio Day)**
- Mar 31: Documentation of Friction Ridge Impressions [Chapter 14] [\[Chapter 10\]](#)
Automated Fingerprint Identification Systems [Chapter 7] [\[Chapter 6\]](#)
- Apr 2: ABIS Enrollment
- Apr 7: ABIS Instruction
- Apr 9: ABIS Instruction
- Apr 14: Courtroom Display / Charted Enlargement
- Apr 16: Courtroom Display / Charted Enlargement
- Apr 21: Courtroom Display / Charted Enlargement
- Apr 23: Report Writing
- TERM PAPER DUE**
- Apr 28: FS642L Practical Examination
- Apr 30: FS642L Practical Examination

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