



STARK STATE COLLEGE

GENERAL SYLLABUS

Course Information

Course Name: Digital Media Forensics
Course Number: CFS280

Required Materials

- Textbook(s):** Seeking the Truth from Mobile Evidence, Bair, 2018, Elsevier, ISBN 978-0-12-811056-0
- Required Readings:** None
- Additional Materials:**
1. Personal computer running Windows 10 Professional (Not Home Edition), a virtual machine running Windows 10 Professional or an external hard drive with a Windows to Go installation running Windows 10 Professional that meets the Paraben E3 minimum specifications.
 2. Other materials are available from Blackboard, furnished by the instructor or available on the Internet.

Course Outline/Calendar

The date of coverage and order of coverage may be modified based on the faculty member and events beyond the control of faculty members that interfere with class times and teaching.

Week	Chapter/Topic/Lab
Week 1	Chapter 1: Defining Cell Phone Forensics & Standards Chapter 2: Evidence Contamination & Faraday Methods <ul style="list-style-type: none"> • Discussion Forum: Class Introduction • Faraday Lab • Quiz 1 & 2
Week 2	Chapters 3 & 4 The Legal Process Parts I & II <ul style="list-style-type: none"> • Quiz 3 & 4 • Ethics & Professionalism Lab Assignment
Week 3	Chapter 5: The Cellular Network Chapter 6: Subscriber Identity Module <ul style="list-style-type: none"> • Quiz 5 & 6 • Mobile Device ID Lab • SIM Card Lab
Week 4	Chapter 7: Device Identification Chapter 8: Triaging Mobile Evidence <ul style="list-style-type: none"> • Quiz 7 & 8 • MVNO Device Lab

Week	Chapter/Topic/Lab
Week 5	Chapter 9: The Logical Examination Chapter 10: Troubleshooting Logical Examination <ul style="list-style-type: none"> • Quiz 9 & 10 • AT Emulator Lab • MP3 Player Lab
Week 6	Chapter 11: Manual Examination Chapter 12: Report Writing <ul style="list-style-type: none"> • Quiz 11 & 12 • Paraben E3 Installation Lab
Week 7	Chapter 13: Physical Acquisitions Chapter 14: Physical Memory & Encoding <ul style="list-style-type: none"> • Quiz 13 & 14 • Exam I
Week 8	Chapter 15: Date & Time Stamps Chapter 16: Manual Decoding MMS <ul style="list-style-type: none"> • Quiz 15 & 16 • Manual Validation Lab
Week 9	Chapter 17: Application Data Chapter 18: Advanced Validation <ul style="list-style-type: none"> • Quiz 17 & 18 • SQLite Lab • USB Monitoring Lab
Week 10	Chapter 19: Android User Enabled Security: Passwords and Gestures Chapter 20: Nondestructive Hardware and Software Solutions <ul style="list-style-type: none"> • Quiz 19 & 20 • Feature Phone Lab
Week 11	Chapter 21: Phone Disassembly and Water-Damaged Phones Chapter 22: JTAG (Joint Test Action Group) <ul style="list-style-type: none"> • Quiz 21 & 22 • Chip-Off Recovery Lab
Week 12	Chapter 23: JTAG Specialized Equipment Chapter 24: RIFF Box Overview <ul style="list-style-type: none"> • Quiz 23 & 24 • Windows Mobile Lab
Week 13	Chapter 25: Z3X Box (Easy JTAG) Overview Chapter 26: Thermal Chip Removal <ul style="list-style-type: none"> • Quiz 25 & 26 • iPhone Mobile Lab
Week 14	Chapter 27: Nonthermal Chip Removal Chapter 28: BGA Cleaning <ul style="list-style-type: none"> • Quiz 27 & 28 • Android Mobile Lab
Week 15	Chapter 29: Creating an Image Chapter 30: eMMC Reading and In-System Programming <ul style="list-style-type: none"> • Quiz 29 & 30 • Exam II
Week 16	Final Practical Exam; Final Practical Lab