

Minnesota State College Southeast

NWAT 2692: Electronic Devices Forensics

A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 3

Lab Hours/Week: *.*

OJT Hours/Week: *.*

Prerequisites:

This course requires all three of these prerequisites

NWAT 1608 - MS Workstation

NWAT 1641 - Networking Fundamentals

NWAT 2681 - Fundamentals of Security

Corequisites: None

MnTC Goals: None

The Electronic Devices Forensics course provides an introduction to mobile device forensics including practical approaches and best practices involved in performing mobile forensics. Students will examine the internals of popular mobile devices including their operating systems, hardware, and security concepts. Students will gain an understanding of the tools available to perform mobile forensic tasks including data acquisitions, data recovery, and industry best practices. (Prerequisites: NWAT1601, NWAT1602, NWAT1641, NWAT1649, NWAT2681, and NWAT2689) (3 credits: 3 lecture/0 lab)

B. COURSE EFFECTIVE DATES: 04/15/2015 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Data Acquisitions
2. Data Analysis
3. Data Recovery
4. Mobile Forensic Tools
5. Mobile Security

D. LEARNING OUTCOMES (General)

1. List common types of iOS Devices
2. Understand the iOS file system
3. Identify different versions of the iOS operating system
4. Use iOS Forensics Tools
5. Explain the data acquisition process from iOS devices
6. Understand iOS device security and its impact on the iOS forensics approach
7. Explain data recovery techniques for Android
8. List common types of Android Devices
9. Understand the Android file system
10. Identify different versions of the Android operating system
11. Use Android Forensics Tools
12. Understand the data acquisition process from Android devices
13. Explain data recovery techniques for Android
14. Understand Android device security and its impact on the Android forensics approach
15. List popular mobile device operating systems and device types

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted