**Exam 1 Review: Technology and the Criminal Justice System**

Professor Byrne, Fall, 2016

Exam Date: Thursday, Oct.6, 2016

Required Readings for Exam 1:

\*Text: Chapters 1, 2, 4, 5, and 14

\*Handouts (via email) and Reading from Materials Link on course webpage:

 **(1)** Byrne and Kimball, *Inside the Darknet: Techno-crime and Criminal*

 *Opportunity* ( chapter emailed to students)

 (2) Byrne and Marx, *Technological Innovations in Crime Prevention and Policing. A Review*

 *of the Research on Implementation and Impact* ( pp. 17-25 only; article available on course

 webpage in materials link)

 (3) Rebovich, *Securing Cyberspace* (Chapter emailed to students)

\***Links and Videos**: See schedule and review all video and power points for Week1-Week5.

**Exam Format:** Short answers and essay format. Questions will be drawn from class lectures, the text, and the online links we reviewed in class. I recommend using the key topics identified below as a study guide. Key terms are identified for each topic area. You will be responsible for knowing these terms, as well as the basic facts related to each topic area (definitions of terms, evidence of effectiveness, extent of use, etc)

Listing of Key People and Terms: Identifications and short answers( 60% of exam)

**1.** Richard Sparks’s typology: Techno-Crime as Work, Techno-Crime at Work, and Techno-Crime after Work. (examples) – Kip Schlegal and Charles Cohen, Text chapter 2, Lecture, Byrne and Kimball chapter

2. Can we use technology to predict future crime and identify future criminals? Do we need a Department of Pre-Crime? (lecture/link)

3. What are these Risk Assessment instruments? When are they used? ( chapter 5, lecture)

 Static 99,

 Hare Psychopathy Checklist,

 VRAG,

 RRASOR:

4. Gary Marx’s social engineering strategies: target removal, target devaluation, target insulation, offender weakening and incapacitation, exclusion, and offense/offender/ target identification. (definitions and examples) – Marx chapter(14)/ Lecture

5. What can we do to prevent credit card fraud? What is the estimated cost of credit card fraud globally? (Byrne and Kimball chapter)

6. Describe Situational crime prevention strategies (lecture/ link) and the problem analysis triangle (examples) (Lecture, link )

7. Actuarial vs clinical assessment: What is the difference? Which procedure is more accurate? (Text, chapter 5, lecture)

8. False positives vs. false negatives: What’s the difference? Why does it matter? (Chapter 5/lecture)

9. What is China’s Golden Shield? And what is China’s All Seeing Eye? – (Lecture/link to article by Naomi Klein on schedule, week 3)

10. What is MOSAIC? ( lecture/video)

11. What is CCTV? Is it effective?--Welsh and Farrington chapter 4, lecture and guest presentation

12. Silk Road and the Darknet: What is it? What happened to Ross Ulbricht? How does silk road work? ( Byrne and Kimball chapter,link/lecture/ video)

15. Examples of how technology is being used to commit crime: (video/lecture, Byrne and Kimbal chapter)

 Bluesnarfing ( and Paris Hilton, chapter 2),

 Electronic pickpocketing (video/lecture),

 Zeus software and Crytolocker

16. Who are the FBI’s most wanted cyber criminals? (Identify any 2) What are some examples of their crimes? (link/lecture) <https://www.fbi.gov/investigate/cyber/most-wanted>

17. Describe the findings from the Exceptional Case Study Project: What are the implications for threat assessment? Can we use threat assessment to prevent school shootings, or terrorist attacks? (chapter 5/ lecture/ Harris PPT)

18. Computer Network intrusions: (chapter 2 and electronic crime terms link on schedule)

 Hacking (breaking into secure networks),

 Phishing( email-based frauds such as 419 fraud schemes),

 Pharming( fake but legit looking websites),

 Wardriving( hot spots for internet),

 Steganography( hiding data inside legit looking website or music file)

19. What is ransomware? What are the two most notorious ransomware programs?

 ( Byrne and Kimball chapter)

20. Techno-crime schemes: How do they work? How often do they occur? How much $ do cybercriminals get? ( lecture, links, Byrne and Kimball chapter)

 Nigerian letter419 fraud,

 Telemarketing fraud,

 Advanced fee schemes,

 Fake Drug scams

 Ponzi schemes/ Bernie Madoff

21. Describe the extent of use of residential and commercial property monitoring technology ($$ spent on alarm systems, and common interest development( CID).

(Lecture)

22. Is there a link between mental illness and homicide? (Text, chapter 5)

23. Describe involuntary civil commitment procedures (lecture)

24. Do we have the technology to predict homicide? (lecture, links)

25. How can **biometric identification and authentication be used to protect our**

 **cyberspace? What is the future of biometrics? ( Rebovich chapter)**

Sample Essay questions for review: 40% of exam

1. Why are techno-criminals migrating from the internet to the darknet? ( Byrne and Kimball chapter)
2. How do you get to the darknet? When you arrive, what will you find? ( Byrne and Kimball chapter)
3. Describe the growth of the crime prevention technology industry, and include estimates on spending in this area. ( Byrne and Marx article)
4. How extensive is the USA’s current government surveillance technology? What role did Snowden play in revealing the nature and extent of this surveillance?

( Byrne/Marx article, Surveillance Society and Snowden videos)

1. Can we use technology to prevent sex crime? ( lecture, links, Byrne and Kimball chapter)
2. What can we do to prevent school violence using new technology? ( text, chapter 5, Lecture, guest lecture, links)
3. What can we do to prevent cybercrime and secure cyberspace? ( Rebovich chapter, lecture)