## Course Competency

**Competency 1:** The student will utilize computers in profiling by:

1. Reviewing computing fundamentals and computer related crimes.
2. Identifying networking technologies specific to computer crime.
3. Identifying computer crimes in the State of Florida, investigative techniques and forensic examination.
4. Exploring administrative computing in the police environment.

**Competency 2:** The student will analyze the techniques of forensic interviewing by:

1. Describing the sensitive nature of interviewing victims of computer crime.
3. Defining techniques for gathering information.
4. Defining the probative value of evidence.

**Competency 3:** The student will analyze information on the Internet by:

1. Describing and discussing how the Internet can augment the traditional investigative methodology.
2. Exploring the history of the Internet and emergence of cyber-crime.
3. Exploring various Internet crimes.
4. Acquiring tools and techniques to make searches more efficient.
**Competency 4:** The student will examine the use of computers in commercial crimes by:

1. Identifying various computer crimes.
2. Examining law related to use of computers in the commission of commercial crimes.
3. Utilizing appropriate terminology.
4. Describing corporate and governmental protection against various computer crimes.

**Competency 5:** The student will examine the basics of encryption by:

2. Recognizing cryptographic algorithms.
3. Defining encryption protocols.
4. Defining cryptographic techniques and key infrastructure.

**Competency 6:** The student will explore various network exploits and vulnerabilities by:

1. Identifying common vulnerabilities.
2. Defining the tools that are used to exploit vulnerabilities.
3. Analyzing theoretical and practical issues in malicious programs and scripts.
4. Analyzing the nature of computer worms and viruses.

**Course Competency 7:** The student will analyze computer forensics of the crime scene by:

1. Examining investigations by first responders.
2. Examining digital evidence.
4. Reviewing case studies.

**Course Competency 8:** The student will examine the process of securing a computer network by:
1. Discussing firewall operation.
2. Identifying interception and tracking measures used in Internet communications.
3. Recognizing hacker exploits and tools.
4. Defining the nature of proxy servers.
5. Exploring current trends in emerging technologies.

**Course Competency 9:** The student will analyze forensic behavioral science by:

1. Identifying violent sexual Internet offenders.
2. Recognizing the profiles characteristics of computer criminals.
3. Assessing investigative difficulties.
4. Comparing the science based methods used by police.

*Updated Spring 2021*