

Cybersecurity for Curriculum Alignment

10. Data Security

	KSA Description	Knowledge, Skill, or Ability?	Bloom's Taxonomy Level?	Cross-cutting KSAs	Course Number/Name	Learning Outcome
a	Describe the following terms: cipher, cryptanalysis, cryptographic algorithm, and cryptology, and describe the two basic methods (ciphers) for transforming plaintext to ciphertext.	Knowledge	2			
b	Describe which cryptographic protocols, tools and techniques are appropriate for a given situation.	Knowledge	2			
c	Implement end-to-end data security including maintaining data security using data labeling, handling and disposal, as required by policy	Skill	3			
d	Describe what a digital investigation is, the sources of digital evidence, and the limitations of forensics.	Knowledge	2			
e	Compare and contrast a variety of forensics tools.	Knowledge	4			
f	Use the concepts of authentication, authorization, access control, and data integrity.	Skill	2			
g	Implement secure storage of passwords and PII.	Skill	3			
h	Describe the various techniques for data erasure.	Knowledge	2			