	Data Management KSAs for Curriculum Alignment

		3. Data Governance and Ethics				
	KSA Description	**Knowledge, Skill, or Ability?**	**Bloom's Taxonomy Level?**	**Cross-cutting KSAs**	**Course Number/Name**	**Learning Outcome**
a	Explain data governance and its significance throughout the data life cycle.	Knowledge	3			
b	Describe change management and the role it plays in data governance.	Knowledge	2			
c	Describe regulatory frameworks such as HIPPA, GDPR and NIST.	Knowledge	2			
d	Demonstrate ability to apply regulatory framework appropriately.	Ability	3			
e	Identify the established legal, ethical and privacy issues in cybersecurity facing organizations.	Knowledge	2	Generalist 5b, Data Analytics 8b, Machine Learning 5b		
f	Explain the importance of personal privacy issues related to the collection and usage of data.	Knowledge	2	Generalist 5d, Data Analytics 8i, Machine Learning 5g		
g	Describe the importance of lineage and provenance throughout the data life cycle.	Knowledge	2			
h	Demonstrate an understanding of system of record (golden source) of master data vs transactional data.	Knowledge	2			
i	Perform data risk management (assessing vulnerabilities and threats and implementing appropriate responses) throughout the data life cycle.	Ability	2			
j	Explain individual and data bias and the implications each has in data analysis.	Knowledge	3	Generalist 5f, Machine Learning 5k		