Data Literacy Foundations DL.S.STC

Data is one of the most abundant and valuable commodities in today's business environment. However, data only becomes valuable when it is refined into usable information. This is why data literacy is a skill advantage that will only gain importance with time.

Data analytics is the process of turning raw data into actionable insights used to solve problems and challenges within an organization. In 2019, the global data analytics market was valued at $49 billion USD—which is more than double what it was worth in 2015. It is anticipated that the market for data analytics is expected to grow 30% each year in the coming years taking it up over $77 billion USD. As the data analytics field continues to grow, more job roles will be required to manage and communicate vital analysis. Therefore, the skills of data analysts are becoming increasingly pivotal and helping to do social good.

Collecting, analyzing, and reporting on data can drive conversations and priorities, and lead business decision-making. The data technician works in these data areas: Collecting and manipulating data, visualizing, and reporting data, applying basic statistical methods, and analyzing datasets throughout the entire data life cycle using tools like Python, SQL, R, Tableau, Excel, SAS, RapidMiner, AWS, Git, and more.

Junior Year

	Course or ODE	High School Credits		Sinclair Course	College Credits	Mode of Delivery
				CIS 1160: Intro to Data Literacy	3	Sinclair Tech Prep Proficiency
				BIS 1120: Intro to Software Applications	3	Sinclair Tech Prep Proficiency
				CIS 2266: Python for Data Analytics	3	Sinclair Tech Prep Proficiency

Senior Year

	Course or ODE	High School Credits		Sinclair Course	College Credits	Mode of Delivery
				MAT 1455: Intro to Data Science	5	CCP
				BIS 1600: Data Management and Visualization	3	CCP
	Computer Coding & Web Apps 2			CIS 2165: Database Management	3	Sinclair Tech Prep Proficiency

Post High School: Sinclair Community College

	Sinclair Course	College Credits
	CIS 2267: Advanced Python for Data Analytics	3
	CIS 2265: Data Visualization	3
	CIS 2268: SQL Programming	3