DATA SCIENCE (DATA)

DATA 1500. Intro to Data Science. (3 Credits)

DATA 1501. Intro to Data Science. (3 Credits)
Credit Hours: 3-0-3 This course is intended to provide an introduction into the field of Data Science. Students will develop skills in appropriate technology and basic statistical methods by completing hands-on projects focused on real-world data and addresses the social consequences of data analysis and application.

DATA 3355. Data Mining. (3 Credits)
Credit Hours: (3-0-3) This course provides an introduction to concepts behind data mining, maching learning, text mining and web mining. Topics include data mining techniques such as classification, regression, association rules, cluster analysis, and recommendation systems used for processes of managing, analyzing, exploring and visualizing Big Data.

DATA 3502. Data Architecture. (3 Credits)
Credit Hours: (3-0-3) This course covers rules, models, policies, and standards that govern the type of data collected and managed within an organization. It emphasizes the tasks of data architects/data managers, i.e., reviewing and analyzing organizational data infrastructure and future databases and the implementation of solutions to store and manage data for organizations and their users.

DATA 3505. Data Management. (3 Credits)
Credit Hours: (3-0-3) This course covers general principles and concepts in data management and practices with the tools and knowledge for data architects/data managers to manage data effectively. It emphasizes strategies for working with data, organizing research data, and sharing your data securely, and effectively.

DATA 3508. Data Driven Decision Making. (3 Credits)
Credit Hours: (3-0-3) This course emphasizes the role of data architects/data managers in using various tools and techniques to collect, analyze, and interpret data for effective decision-making.