MIS 6383 Programming Approaches for Data Management

MIS 6383 Programming Approaches for Data Management (3 semester credit hours) The course discusses programming approaches for managing data through its lifecycle. Students learn how to use SQL and Javascript to create, retrieve and analyze data that is stored using Relational Databases and non-relational document stores (NoSQL). The course also discusses data management approaches, technologies, and architectures in the contexts of structured and unstructured data, big and small volumes of data, data at rest and streaming data, and costs of various approaches. Students learn how online applications developed in Javascript (using Node.js and Angular) can store, retrieve, and share data that is stored in SQL and/or NoSQL databases. (3-0) Y