





**Outcomes:**

Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).

Analyze the data needs of an organization or company, and determine how to best organize and store the data in logical, secure and accessible structures.

Design web applications to access and manipulate data using MS Access, MySQL, MS SQL Server and PHP.

Understanding the roles and responsibilities of a database administrator. Have the ability to troubleshoot systems.

**Certificate of Accomplishment Outcomes (Database Administrator Specialist):**

Demonstrate the ability to install database software on a computer system and configure it for use.

**Certificate of Accomplishment Outcomes (SQL Programmer Specialist):**