

# DATABASE MANAGEMENT - CERTIFICATE OF ACHIEVEMENT

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**Plan Code: 3127**

This program provides the knowledge and skills required of data management professionals. This certificate will prepare students for a variety of roles suitable for an entry-level position in database-related employment. The program provides students with hands-on experiences in enterprise standard database management systems. Students learn to use the SQL database programming language, create database objects, plan, and organize a database around a business need, normalize a relational database system, and provision in-house and cloud-based database solutions. Students may earn industry certificates as part of this certificate.

## Program Student Learning Outcomes

- Analyze the data needs 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.
- Understand the roles and responsibilities of a database administrator, and how to diagnose and troubleshoot systems.

## Program Requirements

Code Number	Course Title	Units
<b>REQUIRED COURSES</b>		
BCOM 15	Business Communications	3
COSA 25	Microsoft Access for Windows	3
COSA 50	Intro to IT Concepts and Applications	4
COSN 205	UNIX/LINUX Fundamentals	4
COSN 251	Database Essentials in Amazon Web Svcs	3
COSP 38	Database Concepts	4
COSP 237	Database Programming with SQL	4
<b>Total Units</b>		<b>25</b>