



Wayne  
County  
Community  
College  
District

# Computer Information Systems: Database Administrator

## PAY

The median annual wage for database administrators (DBAs) was \$87,020 in May 2017. Almost all database administrators work full-time. About 1 in 5 worked more than 40 hours per week in 2017.

## JOB OUTLOOK

Employment of database administrators (DBAs) is projected to grow 11 percent from 2016 to 2026, faster than the average for all occupations. Growth in this occupation will be driven by the increased data needs of companies in all sectors of the economy. Database administrators will be needed to organize and present data in a way that makes it easy for analysts and other stakeholders to understand.

*Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, May 2018, Database Administrators, on the Internet at <http://www.bls.gov/ooh/computer-and-information-technology/database-administrators.htm>*

## ABOUT THE PROGRAM

The Computer Information Systems: Database Administrator certification is designed to give students a technical foundation to design and implement the infrastructure for business solutions using database tools. Database Administrators use software to store and organize business data. The student completing this program can sit for Oracle Certification exams. This program focuses on administrative tasks and building database applications using programming skills such as data collection, query techniques and database creation.



## WHAT DO DATABASE ADMINISTRATORS DO?

Database administrators (DBAs) use specialized software to store and organize data, such as financial information and customer shipping records. DBAs make sure that data are available to users and are secure from unauthorized access. DBAs make sure that data analysts can easily use the database to find the information they need and that the system performs as it should. DBAs sometimes work with an organization's management to understand the company's data needs and to plan the goals of the database. Database administrators are responsible for backing up systems to prevent data loss in case of a power outage or other disaster. They also ensure the integrity of the database, guaranteeing that the data stored in it come from reliable sources.

## WHERE DO THEY WORK?

DBAs were employed in many types of industries. The largest number work for computer systems design and related services firms, such as Internet service providers and data-processing firms. Other DBAs are employed by firms with large databases, such as insurance companies and banks, both of which keep track of vast amounts of personal and financial data for their clients. Some DBAs administer databases for retail companies that keep track of their buyers' credit card and shipping information; others work for healthcare firms and manage patients' medical records.



# Recommended Sequence of Courses

## Database Administrator: Short-Term Certificate

CR. No.	COURSE TITLE	CREDITS
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### **SEMESTER 1**

BUS 225	Computer Applications in Business . . . . .	3
CIS 112	Structured Design . . . . .	3
CIS 120	Introduction to Database Concepts . . . . .	3
<b>SEMESTER TOTAL . . . . .</b>		<b>9</b>

### **SEMESTER 2**

CIS 203	Visual Basic Programming Language . . . . .	3
CIS 210	Introduction to Operating Systems . . . . .	3
CIS 246	Oracle Database Administrator I . . . . .	4
<b>SEMESTER TOTAL . . . . .</b>		<b>10</b>

### **SEMESTER 3**

CIS 240	Networking Essentials . . . . .	3
CIS 247	Oracle Database Administrator II . . . . .	4
OIS 254	Microsoft Access Specialist . . . . .	3
<b>SEMESTER TOTAL . . . . .</b>		<b>10</b>

**CIS: DATABASE ADMINISTRATOR**

**CERTIFICATE TOTAL . . . . .29**

*Note: Certificate total hours may not include prerequisites.*

