

## ORACLE DATABASE DEVELOPER



### Skills You Will Learn...

- ◆ Database Administration and Management
- ◆ Structured Query Language (SQL)
- ◆ Database Performance Tuning
- ◆ Creating Reports
- ◆ Database Application Development
- ◆ PL/SQL
- ◆ Installing and Maintaining an SQL server
- ◆ Computer Programming

### Earn This Degree and Work as...

Position	Median Salary
Database Administrator	\$62,900
Computer Programmer	\$64,820
Software Engineer (Applications)	\$61,860

Source for position and salary information is the Department of Labor and Statistics.

### About the Major

Database administrators install, administer, and optimize database systems for an organization. They ensure that database and document management systems maintain acceptable levels of performance, security, integrity, and confidentiality. Database solutions developers design, develop, test, and support database objects including tables, queries, reports, and forms. They may also design and write customized software that communicates with one or more database management systems.

### The Advantage of the Degree

Database administrators often start as help desk / front-line support and get experience with the operating system and organization's architecture. They then advance to basic administration duties such as user creation and automation support. Entry-level database solutions developers often begin in quality assurance or testing departments, where they verify problems reported by users and verify solutions implemented by senior developers. They may advance to modifying application code and finally to solutions developers.



## Oracle Database Developer 25060 Associate in Science

Total credits required for the degree is 63.

To provide an opportunity to establish a basic foundation in the field of database administration and application development for employment in commercial, industrial, and government institutions. Graduates are prepared for positions as database administrators and database application developers.

Course	Course Title	Credits
<b>GENERAL EDUCATION REQUIREMENTS - 15 credits required</b>		
ENC1101	English Composition 1	3
SPC1017	Fundamental of Speech Communication	3
PHI2604	Critical Thinking/Ethics	3
CLP1006	Psychology of Personal Effect	3
MAC1105	College Algebra	3

### Major Course Requirements – 8 credits required

CGS1060	Intro to Microcomputer Usage	4
CGS1540	Database Concepts	4

### C: Oracle Developer Option– 40 credits required (25060)

COP1334	Introduction to Object Oriented C++	4
COP2800	Java Programming	4
CTS2440	Intro to Oracle: SQL and PL/SQL	4
CTS2445	Programming PL/SQL in Oracle	4
CTS2446	Intro to Oracle DB Applications	4
*Electives		20

\*Computer Electives = (CAP\*, CEN\*, CGS\*, CIS\*, COP\*, CTS\*)

This suggested schedule is one possible way to complete the requirements for your degree program. It is highly recommended that you seek the advice of a Technology department advisor and/or faculty member.

### First Term

15 Credits

CGS1060	Introduction to Microcomputer Usage	4
CGS1540	Database Concepts	4
COP1334	Introduction to Object Oriented C++	4
ENC1101	English Composition I	3

### Second Term

15 Credits

CTS2440	Intro to Oracle: SQL and PL/SQL	4
CTS2445	Programming PL/SQL in Oracle	4
COP2800	Java Programming	4
MAC1105	College Algebra	3

### Third Term

12 Credits

CTS2446	Intro to Oracle DB Applications	4
*Elective		4
*Elective		4

### Fourth Term

12 Credits

*Elective		4
*Elective		4
*Elective		4

### Fifth Term

9 Credits

PHI2604	Critical Thinking/Ethics	3
CLP1006	Psychology of Personal Effect	3
SPC1017	Fundamental of Speech Communication	3

### \*NEW\* Bachelor of Science in Information Systems Technology Requirements:

ECO 2013, STA 2023, CGS 1060, CGS 1540, COP 1334, and either CTS 1134 or CTS 1650 are pre-requisites for the **MDC BS-IST**.

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