

Database Specialist

Diploma

DS14

Curriculum

Basic Skills 8

ENGL 1010 Fundamentals of English I (3)	3
EMPL 1000 Interpersonal Relations and Professional Development (2)	2
MATH 1012 Foundations of Mathematics (3)	3

Occupational Courses 22

Required Courses:

- COMP 1000 Introduction to Computer Literacy (3)
- CIST 1001 Computer Concepts (4)
- CIST 1305 Program Design and Development (3)
- CIST 1200 Database Management (4)
- CIST 2921 IT Analysis, Design, and Project Management (4)

Occupational Electives: Programming Language Elective *(Choose ONE course)* 4

- CIST 2311 Visual Basic I (4)
- CIST 2341 C# Programming I (4)
- CIST 2361 C++ Programming I (4)
- CIST 2371 Java Programming I (4)
- CIST 2381 Mobile Application Development (4)

Specialization: *(Choose ONE course group below)* 23

Oracle specialization:

Required courses: 19

- CIST 1130 Operating Systems Concepts (3)
- CIST 1210 Introduction to Oracle Databases (4)
- CIST 2212 Oracle Database Administration I (4)
- CIST 2214 Oracle Database Administration II (4)
- CIST 2216 Oracle Advanced Topics (4)

CIST Elective *(Choose ONE course)* 4

- Any course in Programming Language Elective above
- OR
- CIST 1401 Computer Networking Fundamentals (4)
- CIST 2312 Visual Basic II (4)
- CIST 2372 Java Programming II (4)
- CIST 2342 C# Programming II (4)
- CIST 2382 Mobile Application Development II (4)
- CIST 2129 Comprehensive Database Techniques (4)
- CIST 2224 Designing and Implementing Databases with Microsoft SQL Server (4)

SQL Server specialization:**Required course:** 15

CIST 1210 Introduction to Oracle Databases (4)

CIST 2411 Implementing Microsoft Windows Professional Client (4)

CIST 2222 Administering Microsoft SQL Server (4)

CIST 2224 Designing and Implementing Databases with Microsoft SQL Server (4)

CIST 2414 Microsoft Server Administrator (4)

CIST Elective (*Choose ONE course*) 4Any course in Programming Language Elective above
OR

CIST 1130 Operating Systems Concepts (3)

CIST 1601 Information Security Fundamentals (3)

CIST 1510 Web Development I (3)

CIST 1401 Computer Networking Fundamentals (4)

CIST 2312 Visual Basic II (4)

CIST 2372 Java Programming II (4)

CIST 2342 C# Programming II (4)

CIST 2382 Mobile Application Development II (4)

CIST 2212 Oracle Database Administration I (4)

CIST 2216 Oracle Advanced Topics (4)

CIST 2129 Comprehensive Database Techniques (4)

Total Credit Hour (minimum): 53