

# Database Specialist

## Associate of Applied Science Degree

DS13

### Curriculum

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<b>General Education Core</b>	<b>15</b>
<b>Area I: Language Arts/Communication</b>	3
ENGL 1101 Composition and Rhetoric (3)	
<b>Area II: Social/Behavioral Sciences</b> <i>(Choose ONE course below)</i>	3
ECON 1101 Principles of Economics (3)	HIST 2111 American History I (3)
ECON 2105 Principles of Macroeconomics (3)	HIST 2112 American History II (3)
ECON 2106 Principles of Microeconomics (3)	POLS 1101 American Government (3)
HIST 1111 World History I (3)	PSYC 1101 Introduction to Psychology (3)
HIST 1112 World History II (3)	SOC 1101 Introduction to Sociology (3)
<b>Area III: Natural Sciences / Mathematics</b> <i>(Choose ONE course below)</i>	3
MATH 1101 Mathematical Modeling (3)	
MATH 1103 Quantitative Skill and Reasoning (3)	
MATH 1111 College Algebra (3)	
<b>Area IV: Humanities/Fine Arts</b> <i>(Choose ONE course below)</i>	3
ARTS 1101 Art Appreciation (3)	
ENGL 2130 American Literature (3)	
HUMN 1101 Introduction to Humanities (3)	
MUSC 1101 Music Appreciation (3)	
RELG 1101 Introduction to World Religions (3)	
<b>Elective: General Education</b> <i>(Choose ONE course)</i>	3
Any course in Area I, II, III, or IV above	CHEM 1212 Chemistry II (3) + CHEM 1212L Lab (1)
OR	MATH 1113 Precalculus (3)
ENGL 1102 Literature and Composition (3)	MATH 1127 Introduction to Statistics (3)
SPCH 1101 Public Speaking (3)	MATH 1131 Calculus I (4)
BIOL 1111 Biology I (3) + BIOL 1111L Biology I Lab (1)	MATH 1132 Calculus II (4)
BIOL 1112 Biology II (3) + BIOL 1112L Biology II Lab (1)	PHYS 1110 Conceptual Physics (3) + PHYS 1110L Lab (1)
CHEM 1211 Chemistry I (3) + CHEM 1211L Lab (1)	PHYS 1111 Introductory Physics I (3) + PHYS 1111L Lab (1)
	PHYS 1112 Introductory Physics II (3) + PHYS 1112L Lab (1)
<b>Occupational Courses</b>	<b>22</b>
<b>Required Courses:</b>	
COMP 1000 Introduction to Computer Literacy (3)	
CIST 1001 Computer Concepts (4)	
CIST 1200 Database Management (4)	
CIST 1305 Program Design and Development (3)	
CIST 2921 IT Analysis, Design, and Project Management (4)	

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

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

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

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**Oracle specialization:**

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- 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)*

- 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:**

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- 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)*

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- Any 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):**

**60**