

CURRICULUM STANDARD

Effective Term
Spring 2006
[2006*01]

Curriculum Program Title

Database Management

Code

A25150

Concentration

(not applicable)

Curriculum Description

The Database Management curriculum prepares graduates for employment with organizations that use database management system software to process, manage, and communicate information. Additionally, the curriculum provides the student with a foundation to begin professional certification with Microsoft or ORACLE database programs.

Course work includes terminology and design, database administration, backup and recovery, performance and tuning, database programming and tools, and related topics. Studies will provide an opportunity for students to implement, support, and manage industry standard database systems.

Graduates should qualify for a wide variety of database and computer related entry-level positions that provide opportunities for advancement with increasing experience and ongoing training.

*Curriculum Requirements**

[for associate degree, diploma, and certificate programs in accordance with 23 NCAC 02E.0204 (3)]

- I. General Education.** Degree programs must contain a minimum of 15 semester hours including at least one course from each of the following areas: humanities/fine arts, social/behavioral sciences, and natural sciences/mathematics. Degree programs must contain a minimum of 6 semester hours of communications. Diploma programs must contain a minimum of 6 semester hours of general education; 3 semester hours must be in communications. General education is optional in certificate programs.
- II. Major Hours.** AAS, diploma, and certificate programs must include courses which offer specific job knowledge and skills. Work experience, including cooperative education, practicums, and internships, may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit. *(See second page for additional information.)*
- III. Other Required Hours.** A college may include courses to meet graduation or local employer requirements in a certificate, diploma, or associate in applied science program. These curriculum courses shall be selected from the Combined Course Library and must be approved by the System Office prior to implementation. Restricted, unique, or free elective courses may not be included as other required hours.

	AAS	Diploma	Certificate
Minimum General Education Hours	15	6	0
Minimum Major Hours	49	30	12
Other Required Hours	0-7	0-4	0-1
Total Semester Hours Credit (SHC)	64-76	36-48	12-18

**Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic use of computers.*

Major Hours

[ref. 23 NCAC 02E.0204 (3)]

- A. Core.** The subject/course core is comprised of subject areas and/or specific courses which are required for each curriculum program. A diploma program offered under an approved AAS program standard or a certificate which is the highest credential level awarded under an approved AAS program standard must include a minimum of 12 semester hours credit derived from the subject/course core of the AAS program.
- B. Concentration** (if applicable). A concentration of study must include a minimum of 12 semester hours credit from required subjects and/or courses. The majority of the course credit hours are unique to the concentration. The required subjects and/or courses that make up the concentration of study are in addition to the required subject/course core.
- C. Other Major Hours.** Other major hours must be selected from prefixes listed on the curriculum standard. A maximum of 9 semester hours of credit may be selected from any prefix listed, with the exception of prefixes listed in the core or concentration. Work experience, including cooperative education, practicums, and internships, may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit.

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	AAS	Diploma	Certificate																																																			
Minimum Major Hours Required	49 SHC	30 SHC	12 SHC																																																			
<p>A. CORE <i>A diploma offered under this AAS degree requires a minimum of 12 SHC extracted from the required subject/course core of the AAS degree.</i></p> <p>Required Courses:</p> <table style="width: 100%; border: none;"> <tr><td style="width: 10%;">CIS 115</td><td style="width: 70%;">Intro to Programming and Logic</td><td style="width: 20%; text-align: right;">3 SHC</td></tr> <tr><td>CTS 285</td><td>Systems Analysis & Design</td><td style="text-align: right;">3 SHC</td></tr> <tr><td>DBA 110</td><td>Database Concepts</td><td style="text-align: right;">3 SHC</td></tr> <tr><td>DBA 115</td><td>Database Applications</td><td style="text-align: right;">3 SHC</td></tr> <tr><td>DBA 120</td><td>Database Programming I</td><td style="text-align: right;">3 SHC</td></tr> <tr><td>DBA 210</td><td>Database Administration</td><td style="text-align: right;">3 SHC</td></tr> <tr><td>DBA 230</td><td>Database in Corp Environs</td><td style="text-align: right;">3 SHC</td></tr> <tr><td>DBA 240</td><td>Database Analysis/Design</td><td style="text-align: right;">3 SHC</td></tr> <tr><td>DBA 289</td><td>Database Project</td><td style="text-align: right;">3 SHC</td></tr> <tr><td>NOS 110</td><td>Operating Systems Concepts</td><td style="text-align: right;">3 SHC</td></tr> <tr><td>SEC 110</td><td>Security Concepts</td><td style="text-align: right;">3 SHC</td></tr> </table> <p>Required Subject Areas:</p> <p>Basic Computer Skills. Select one:</p> <table style="width: 100%; border: none;"> <tr><td style="width: 10%;">CIS 110</td><td style="width: 70%;">Introduction to Computers</td><td style="width: 20%; text-align: right;">3 SHC</td></tr> <tr><td>CIS 111</td><td>Basic PC Literacy</td><td style="text-align: right;">2 SHC</td></tr> </table> <p>Business. Select one:</p> <table style="width: 100%; border: none;"> <tr><td style="width: 10%;">BUS 110</td><td style="width: 70%;">Introduction to Business</td><td style="width: 20%; text-align: right;">3 SHC</td></tr> <tr><td>CTS 115</td><td>Info Sys Business Concepts</td><td style="text-align: right;">3 SHC</td></tr> </table> <p>Networking. Select one:</p> <table style="width: 100%; border: none;"> <tr><td style="width: 10%;">NET 110</td><td style="width: 70%;">Networking Concepts</td><td style="width: 20%; text-align: right;">3 SHC</td></tr> <tr><td>NET 125</td><td>Networking Basics</td><td style="text-align: right;">3 SHC</td></tr> </table>	CIS 115	Intro to Programming and Logic	3 SHC	CTS 285	Systems Analysis & Design	3 SHC	DBA 110	Database Concepts	3 SHC	DBA 115	Database Applications	3 SHC	DBA 120	Database Programming I	3 SHC	DBA 210	Database Administration	3 SHC	DBA 230	Database in Corp Environs	3 SHC	DBA 240	Database Analysis/Design	3 SHC	DBA 289	Database Project	3 SHC	NOS 110	Operating Systems Concepts	3 SHC	SEC 110	Security Concepts	3 SHC	CIS 110	Introduction to Computers	3 SHC	CIS 111	Basic PC Literacy	2 SHC	BUS 110	Introduction to Business	3 SHC	CTS 115	Info Sys Business Concepts	3 SHC	NET 110	Networking Concepts	3 SHC	NET 125	Networking Basics	3 SHC	41-42 SHC	12 SHC	
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<p>C. OTHER MAJOR HOURS <i>To be selected from the following prefixes:</i></p> <p>BUS, CIS, COE, CSC, CTS, DBA, ECM, HPC, ISC, ITN, NET, NOS, SEC, and WEB</p> <p><i>Foreign language courses (including ASL) that are not designated as approved other major hours may be included in all programs up to a maximum of 3 semester hours of credit.</i></p>																																																						