

# CURRICULUM STANDARD

Effective Term  
Fall 2010  
[2010\*03]

Curriculum Program Title

**Healthcare Business Informatics**

Code

**A25510**

Concentration

**(not applicable)**

## *Curriculum Description*

The Healthcare Business Informatics curriculum prepares individuals for employment as specialists in installation, data management, data archiving/retrieval, system design and support, and computer training for medical information systems.

Students learn about the field through multidisciplinary coursework including the study of terminology relating to informatics, systems analysis, networking technology, computer/network security, data warehousing, archiving and retrieval of information, and healthcare computer infrastructure support.

Graduates should qualify for employment as database/data warehouse analysts, technical support professionals, informatics technology professionals, systems analysts, networking and security technicians, and computer maintenance professionals in the healthcare field.

## *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.

	<b>AAS</b>	<b>Diploma</b>	<b>Certificate</b>
Minimum General Education Hours	15	6	0
Minimum Major Hours	49	30	12
Other Required Hours	0-7	0-4	0-1
<b>Total Semester Hours Credit in Program</b>	<b>64-76</b>	<b>36-48</b>	<b>12-18</b>

*\*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																																																																								
<b>Minimum Major Hours Required</b>	<b>49 SHC</b>	<b>30 SHC</b>	<b>12 SHC</b>																																																																								
<b>A. CORE</b> <i>Courses required for the diploma are designated with *</i> <b>Required Courses:</b> <table style="width: 100%; border: none;"> <tr> <td style="width: 15%;">CIS 115</td> <td style="width: 55%;">Intro to Prog &amp; Logic</td> <td style="width: 15%; text-align: right;">3 SHC</td> <td></td> </tr> <tr> <td>CTS 120</td> <td>Hardware/Software Support</td> <td style="text-align: right;">3 SHC</td> <td></td> </tr> <tr> <td>*HBI 110</td> <td>Issues and Trends in HBI</td> <td style="text-align: right;">3 SHC</td> <td></td> </tr> <tr> <td>*HBI 113</td> <td>Survey of Med Insurance</td> <td style="text-align: right;">3 SHC</td> <td></td> </tr> <tr> <td>*HBI 250</td> <td>Data Mgmt and Utilization</td> <td style="text-align: right;">3 SHC</td> <td></td> </tr> <tr> <td>*HBI 289</td> <td>HBI Project</td> <td style="text-align: right;">3 SHC</td> <td></td> </tr> </table> <b>Require Subject Areas:</b> <b>Basic Computer Skills. Select one:</b> <table style="width: 100%; border: none;"> <tr> <td style="width: 15%;">CIS 110</td> <td style="width: 55%;">Introduction to Computers</td> <td style="width: 15%; text-align: right;">3 SHC</td> <td></td> </tr> <tr> <td>CIS 111</td> <td>Basic PC Literacy</td> <td style="text-align: right;">2 SHC</td> <td></td> </tr> </table> <b>Operating Systems. Select one:</b> <table style="width: 100%; border: none;"> <tr> <td style="width: 15%;">CTI 130</td> <td style="width: 55%;">OS and Device Foundation</td> <td style="width: 15%; text-align: right;">6 SHC</td> <td></td> </tr> <tr> <td>NOS 110</td> <td>Operating System Concepts</td> <td style="text-align: right;">3 SHC</td> <td></td> </tr> </table> <b>Information Security. Select one:</b> <table style="width: 100%; border: none;"> <tr> <td style="width: 15%;">CTI 120</td> <td style="width: 55%;">Network &amp; Sec Foundation</td> <td style="width: 15%; text-align: right;">3 SHC</td> <td></td> </tr> <tr> <td>SEC 110</td> <td>Security Concepts</td> <td style="text-align: right;">3 SHC</td> <td></td> </tr> </table> <b>Network Systems. Select one:</b> <table style="width: 100%; border: none;"> <tr> <td style="width: 15%;">NET 110</td> <td style="width: 55%;">Networking Concepts</td> <td style="width: 15%; text-align: right;">3 SHC</td> <td></td> </tr> <tr> <td>NET 125</td> <td>Networking Basics</td> <td style="text-align: right;">3 SHC</td> <td></td> </tr> <tr> <td>TNE 111</td> <td>Campus Networks I</td> <td style="text-align: right;">3 SHC</td> <td></td> </tr> </table> <b>Database. Select one:</b> <table style="width: 100%; border: none;"> <tr> <td style="width: 15%;">DBA 110</td> <td style="width: 55%;">Database Concepts</td> <td style="width: 15%; text-align: right;">3 SHC</td> <td></td> </tr> <tr> <td>DBA 120</td> <td>Database Programming I</td> <td style="text-align: right;">3 SHC</td> <td></td> </tr> <tr> <td>DBA 210</td> <td>Database Administration</td> <td style="text-align: right;">3 SHC</td> <td></td> </tr> </table>   <div style="text-align: right;"><i>Continued on next page</i></div>	CIS 115	Intro to Prog & Logic	3 SHC		CTS 120	Hardware/Software Support	3 SHC		*HBI 110	Issues and Trends in HBI	3 SHC		*HBI 113	Survey of Med Insurance	3 SHC		*HBI 250	Data Mgmt and Utilization	3 SHC		*HBI 289	HBI Project	3 SHC		CIS 110	Introduction to Computers	3 SHC		CIS 111	Basic PC Literacy	2 SHC		CTI 130	OS and Device Foundation	6 SHC		NOS 110	Operating System Concepts	3 SHC		CTI 120	Network & Sec Foundation	3 SHC		SEC 110	Security Concepts	3 SHC		NET 110	Networking Concepts	3 SHC		NET 125	Networking Basics	3 SHC		TNE 111	Campus Networks I	3 SHC		DBA 110	Database Concepts	3 SHC		DBA 120	Database Programming I	3 SHC		DBA 210	Database Administration	3 SHC		<b>39-48 SHC</b>		
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### Healthcare Business Informatics A25510 (Continued)

<p><b>Medical Terminology. Select one set:</b>  MED 120 Survey of Med Terminology 2 SHC  <i>or</i>  MED 121 Medical Terminology I 3 SHC  <i>and</i>  MED 122 Medical Terminology II 3 SHC  <i>or</i>  OST 141 Med Terms I-Med Office 3 SHC  <i>and</i>  OST 142 Med Terms II-Med Office 3 SHC</p> <p><b>Medical Legal and Regulatory Issues. Select one:</b>  MED 118 Medical Law and Ethics 2 SHC  OST 149 Medical Legal Issues 3 SHC</p> <p><b>Business Management. Select one:</b>  BUS 110 Introduction to Business 3 SHC  ETR 210 Introduction to Entrepreneurship 3 SHC  HMT 110 Intro to Healthcare Mgt 3 SHC  LOG 210 Introduction to Logistics 3 SHC</p>			
<p><b>B. CONCENTRATION</b></p>			
<p><b>C. OTHER MAJOR HOURS</b>  <i>To be selected from the following prefixes:</i></p> <p>ACA, ACC, BUS, CCT, CET, CIS, CIT, CJC, COE, CSC, CTI, CTS,  DBA, ECM, ECO, EGR, ETR, HBI, HMT, LOG, MED, MKT, NET,  NOS, OST, SEC, SGD, TNE, 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>			