

STATE BOARD OF COMMUNITY COLLEGES
CURRICULUM STANDARD REVISION

Wake Technical Community College
Business Analytics (A25350)

Wake Technical Community College is seeking approval to revise the Business Analytics (A25350) curriculum standard, effective Fall 2016. The proposed revisions follow:

- Add the following courses to the “Required Courses” area:
BAS 221 Intro to Predictive Analytics
BAS 240 Data Structures for Analytics
- Remove the following courses from the “Required Courses” area:
CTS 130 Spreadsheet
DBA 110 Database Concepts
- Remove the “Data Management” subject area.

**Please note, the proposed revision would result in a decrease of required core hours for the AAS degree from 32-34 SHC to 29-31 SHC.*

Rationale of Requesting College: The proposed curriculum standard revision is necessary to align with industry and workforce requirements. In addition, the revision better reflects the progression of skills building based on Business Analytics course revisions that were approved by the Curriculum Review Committee (CRC) in May 2015.

Wake Technical Community College is the only college approved to offer the program.

Coordinator: Dr. Hilmi A. Lahoud

PROPOSED CURRICULUM STANDARD

Effective Term
Fall 2014 2016
[2014 2016*03]

Curriculum Program Title	Business Analytics	Program Code	A25350
Concentration	(not applicable)	CIP Code	52.1301

Curriculum Description

The Business Analytics curriculum is designed to provide students with the knowledge and the skills necessary for employment and growth in analytical professions. Business analysts process and analyze essential information about business operations and also assimilate data for forecasting purposes.

Students will complete course work in business analytics, including general theory, best practices, data mining, data warehousing, predictive modeling, project and operations management, statistical analysis, and software packages. Related skills include business communication, critical thinking and decision making.

Graduates should qualify for employment as data technicians, data scientists, business and data analytics engineers, and business analysts in the fields of finance, banking, logistics, marketing, healthcare, manufacturing, information technology, and government organizations.

Curriculum Requirements*

[for associate degree, diploma, and certificate programs in accordance with 1D SBCCC 400.97 (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-based learning 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 in Program	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.*

Proposed**Major Hours**

[ref. 1D SBCCC 400.97(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 of 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-based learning 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.

Business Analytics (A25350)

	AAS	Diploma	Certificate
Minimum Major Hours Required	49 SHC	30 SHC	12 SHC
A. CORE <i>Courses required for the diploma are designated with *</i> Required Courses: * BAS 120 Intro to Analytics 3 SHC * BAS 121 Data Visualization 3 SHC * BAS 150 Intro to Analytical Program. 3 SHC * BAS 220 Appl. Analytical Program. 3 SHC BAS 221 Intro to Predictive Analytics 3 SHC BAS 240 Data Structures for Analytics 3 SHC BAS 270 Adv Analytical Tools & Methods 3 SHC BUS 110 Introduction to Business 3 SHC CTS 130 Spreadsheet 3 SHC DBA 110 Database Concepts 3 SHC Required Subject Areas: Basic Computer Skills (Select one): CIS 110 Introduction to Computers 3 SHC CIS 111 Basic PC Literacy 2 SHC OST 137 Office Software Applicat. 3 SHC * Statistics (Select one) BUS 228 Business Statistics 3 SHC MAT 152 Statistical Methods I 4 SHC Data Management (Select one) DBA 115 Database Applications 3 SHC DBA 120 Database Programming I 3 SHC HBI 250 Data Mgmt and Utilization 3 SHC	32-34 SHC 29-31 SHC	15 SHC	
B. CONCENTRATION (if applicable)			

<p>C. OTHER MAJOR HOURS <i>To be selected from the following prefixes:</i></p> <p>ACC, AIB, BAF, BAS, BUS, CIS, CJC, CSC, CTI, CTS, DBA, ECM, ECO, ETR, GIS, HBI, HRM, INS, INT, ISC, ITN, LOG, MAT, MKT, OMT, OST, PAD, RLS, WBL, and WEB</p> <p>Up to three semester hour credits may be selected from the following prefixes: <i>ARA, ASL, CHI, FRE, GER, ITA, JPN, LAT, POR, RUS and SPA</i></p>			
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Approved by the State Board of Community Colleges on February 17, 2012; Editorial Correction 03/15/12; CRC Revised – Electronic Only 01/25/13; CRC Revised 11/07/13; SBCC Revised 05/16/14; CRC Revised—Electronic Only 05/29/14; SBCC _____.