

Program Planning Guide

Health Information Technology, Certificate in Data Analytics (C45360-DA)

See the College Catalog for details regarding: Limited Enrollment Curriculum; Entrance Standards; Required Admissions Criteria and Requirements for Acceptance. <http://www.cccc.edu/curriculum/majors/hit/>

Program Length: 2 semesters

Career Pathway Options: Associate in Applied Science in Health Information Technology, Diploma, Certificate(s)

Program Site(s): Harnett Health Sciences (Online/Evening)

Suggested Course Schedule:	Hours				Grade	Semester	Notes
	Class	Lab	Clinical	Credit			
1st Semester (Fall)							
MAT 152	Statistical Methods	3	2	0	4		
HIT 110	Intro to Healthcare & HIM	3	0	0	3		
HIT 114	Health Data Systems/Standards	2	3	0	3		
		8	5	0	10		
2nd Semester (Spring)							
HIT 225	Healthcare Informatics	2	3	0	3		
HIT 217	Quality & Data Analysis	2	3	0	3		
		4	6	0	6		

Total Semester Hours Credit: 16

Course Descriptions:

HIT 110 Intro to Healthcare & HIM 3-0-0-3

This course introduces healthcare settings and the Health Information Management (HIM) professional's role in healthcare delivery systems. Topics include health information management operations in compliance with standards, regulations, and accrediting body initiatives; healthcare providers and disciplines; and electronic health records (EHRs). Upon completion, student should be able to demonstrate an understanding of health information management and healthcare organizations, professions, and trends.

HIT 114 Health Data System/Standards 2-3-0-3

This course covers concepts and techniques for managing and maintaining all health record formats including electronic health records (EHR). Topics include structure and use of health information including data collection and analysis, data sources/sets, archival systems, as well as quality and integrity of healthcare data. Upon completion, students should be able to determine compliance of health record content and governance standards within the health organization.

HIT 217 Quality Management 1-3-0-2

Prerequisite: MAT 152

This course covers the principles of quality assessment and improvement, including data analysis and decision making in healthcare. Topics include healthcare statistics, continuous quality improvement, data analysis and reporting techniques, quality, and outcome metric monitoring. Upon completion, students should be able to compute healthcare statistics, abstract, analyze and report clinical data for organization-wide quality and performance improvement programs for compliance purposes.

HIT 225 Healthcare Informatics 2-3-0-3

This course covers data analysis to support decision making, patient care, and regulatory compliance. Topics include clinical terminology and vocabulary systems, data capture methodology, data presentation and reporting, and initiatives to improve the quality of patient care. Upon completion, students should be able to identify data elements and sets, analyze capture methodology in healthcare settings, analyze compliance issues and make improvement recommendations.

MAT 152 Statistical Methods I 3-2-0-4

Prerequisite: Prerequisite: Take one set: 1. DMA-010, DMA-020, DMA-030, DMA-040, DMA-050, & DRE-098; 2. DMA-010, DMA-020, DMA-030, DMA-045, & DRE-098; 3. DMA-025, DMA-040, DMA-050, and DRE-098; 4. DMA-025, DMA-045, & DRE-098; 5. MAT-003 & ENG-002; 6. MAT-003 & ENG-111; 7. MAT-003 & DRE-098; 8. DMA-010, DMA-020, DMA-030, DMA-040, DMA-050, & ENG002; 9. DMA-010, DMA-020, DMA-030, DMA-045, & ENG-002; 10. DMA-025, DMA-040, DMA-050, & ENG-002; 11. DMA-025, DMA-045, & ENG-002

This course provides a project-based approach to introductory statistics with an emphasis on using real-world data and statistical literacy. Topics include descriptive statistics, correlation and regression, basic probability, discrete and continuous probability distributions, confidence intervals and hypothesis testing. Upon completion, students should be able to use appropriate technology to describe important characteristics of a data set, draw inferences about a population from sample data, and interpret and communicate results. This course has been approved for transfer under the CAA and ICAA as a universal general

education transfer component (UGETC) course in Mathematics.