

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	Elective	2	2	0	3		
HIT 110	Fundamentals of HIM	3	0	0	3		
HIT 210	Healthcare Statistics	2	2	0	3		
		7	2	0	9		
2nd Semester (Spring)							
HIT 114	Health Data Sys/Standards	2	3	0	3		
HIT 225	Healthcare Informatics	3	2	0	4		
HIT 216	Quality Management	1	3	0	2		
		6	8	0	9		

Total Semester Hours Credit: 18

Course Descriptions:

MAT 110 Math Measurement & Literacy* 2-2-0-3

Prerequisite: Take one set: DMA 010 and DMA 020 and DMA 030, MAT 060 and MAT 070, MAT 060 and MAT 080, MAT 060 and MAT 090, MAT 095 or appropriate placement.

This course provides an activity-based approach that develops measurement skills and mathematical literacy using technology to solve problems for non-math intensive programs. Topics include unit conversions and estimation within a variety of measurement systems; ratio and proportion; basic geometric concepts; financial literacy; and statistics including measures of central tendency, dispersion, and charting of data. Upon completion, students should be able to demonstrate the use of mathematics and technology to solve practical problems, and to analyze and communicate results. Upon completion, students should be able to apply proper techniques to gathering, recording, manipulating, analyzing, and communicating data. This course has been approved for transfer under the CAA and ICAA as a general education course in Mathematics (Quantitative).

HIT 110 Fundamentals of HIM 3-0-0-3

This course introduces Health Information Management (HIM) and its role in healthcare delivery systems. Topics include standards, regulations and initiatives; payment and reimbursement systems, healthcare providers and disciplines; and electronic health records (EHRs). Upon completion, students should be able to demonstrate an understanding of health information management and healthcare organizations, professions and trends.

HIT 114 Health Data Sys./Standards 2-3-0-3

This course covers concepts and techniques for managing and maintaining manual and electronic health records (EHR). Topics include structure and use of health information including data collection and analysis, data sources/sets, archival systems and quality and integrity of healthcare data. Upon completion, students should be able to monitor and apply system-wide clinical documentation guidelines and comply with regulatory standards.

HIT 210 Healthcare Statistics 2-2-0-3

Prerequisite: MAT 110 or MAT 143

This course covers maintenance, compilation, analysis and presentation of healthcare statistics and research protocols and techniques. Topics include basic statistical principles, indices, databases, registries, vital statistics, descriptive statistics, research protocol monitoring, Institutional Review Board processes and knowledge-based research techniques. Upon completion, students should be able to apply, interpret and present healthcare statistics and utilize research techniques to gather and interpret healthcare data.

HIT 216 Quality Management 1-3-0-2

Prerequisite: HIT 114

This course introduces principles of quality assessment and improvement, and utilization, risk, and case management, in healthcare. Topics include Continuous Quality Improvement, and case management processes, data analysis/reporting techniques,

credentialing, regulatory quality monitoring requirements, and outcome measures and monitoring. Upon completion, students should be able to abstract, analyze, and report clinical data for facility-wide quality management/performance improvement programs and monitor compliance measures.

HIT 225 Healthcare Informatics 3-2-0-4

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.