Program Planning Guide

Health Information Technology, Certificate in Data Analytics (C45360DA)

Program Length: 2 semesters
Program Sites: Harnett Health Sciences (Online/Evening)
Career Pathway Options: Associate in Applied Science in Health Information Technology, Diploma, Certificate(s)

Suggested Course Schedule		Class	Lab	Clinical	Credits	Notes:
1st Semester (Fall)						
MAT 152	Statistical Methods	3	2	0	4	
HIT 110	Intro to Healthcare & HIM	3	0	0	3	1st 8 Week
HIT 114	Health Data Systems/Standards	2	3	0	3	2nd 8 Week
	Total Semester Hours	**8**	**5**	**0**	**10**	
2nd Semester (Spring)						
HIT 225	Healthcare Informatics	2	3	0	3	1st 8 Week
HIT 217	Quality & Data Analysis	2	3	0	3	2nd 8 Week
	Total Semester Hours	**4**	**6**	**0**	**6**	
Total Semester Hours Credit Required for Graduation: 16						

Course Descriptions

HIT 110 Intro to Healthcare & HIM

Semesters Offered: FA/SP

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, students should be able to demonstrate an understanding of health information management and healthcare organizations, professions, and trends**.**

HIT 114 Health Data System/Standards

Semesters Offered: FA/SP

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

Semesters Offered: FA/SP

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

Semesters Offered: SP

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

Semesters Offered: FA/SP/SU

Prerequisite: Take one set: 1. DMA-010, DMA-020, DMA-030, DMA-040, DMA-050, & DRE-098; 2. DMA-010, DMA-020, DMA030, 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.