

## **Healthcare Data Analytics**

**Certificate of Accomplishment** 

STUDENT NAME	SID#	
PROGRAM CHAIR	DATE	

PROGRAM REQUIREMENTS		Requested Substitution/Transfer Credits (if applicable)			Completed			
Course	Course Title	CR	College/University	Course	CR	Grade	Quarter	Year
HCTM 320	Health IT Data Standards	5						
HCTM 375	HIT Project Management	5						
HCTM 450	Healthcare Analytics and Quality	5						
HCTM 455	Data Warehousing in Healthcare	5						
HCTM 470	Healthcare Data Analytics Applications	5						
PHIL 365	Biomedical Ethics: Theory and Practice	5						
TOTAL		30						

The Healthcare Data Analytics certificate is an advanced certificate option designed to introduce students to the rapidly emerging field of healthcare data analytics. Courses in this certificate will focus on tools, practices and issues surrounding the use of data analytics in support of key decisions in healthcare organizations. Topics include: clinical, operational and financial analytics in various healthcare settings; and trends and regulations that shape the role and practices of healthcare analytics. This certificate will be well-suited for Healthcare and/or HIT professionals who will be involved in analyzing, interpreting and/or reporting clinical, financial, operational and/or regulatory data.

## **PREREQUISITES**

- Associate degree in an IT-related or healthcare-related field, with a minimum of 20 credits of Health IT specific coursework and passing score on CAHIMS certification exam or completion of CAHIMS coursework, OR either 2 years of health IT or 1 year of healthcare plus one year of HIT work experience.
- Database course or experience (BTS 168 Business Data Management Tools or equivalent)
- Spreadsheet course or experience (BTS 165 Business Spreadsheet Analysis and Design or equivalent)
- Statistics course or experience (BA 240 Statistical Analysis OR MATH 130 -Intro to Statistics or equivalents)

## **LEARNING OUTCOMES**

## Certificate recipients should possess the following skills & abilities:

- Determine how healthcare standards relate to patient records, coding and classification systems, privacy and security
- Discuss the current practices and trends in data infrastructure and medical device integration
- Articulate the current industry standards and associations, government legislations and regulations, and national organizations that support and drive healthcare data analytics
- Explore the scope and role of data and data analytics in healthcare in the context of national quality policies
- Analyze strategies, benefits and limitations of data analytics in various healthcare environments and for different applications
- Debate how data analytics can support key decisions in healthcare clinical, financial and operational settings
- Analyze the drivers, barriers and trends to the implementation and use of healthcare analytics are discussed
- Identify and apply appropriate tools and techniques to analyze a given data set

- Develop reports and presentations summarizing analytics results for stakeholders with varied backgrounds and expertise
- Develop a research strategy to solve a particular problem for a particular stakeholder
- Debate how current and emerging regulations and ethical perspectives impact healthcare data analytics practices
- Develop appropriate metrics and processes to obtain data supporting key healthcare decisions
- Analyze the various elements of data analytics implementation and management plans in specific healthcare settings and for specific outcomes

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www.bellevuecollege.edu/programs/degrees/proftech/ hctm/#dataanalytics

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