

<b>STUDENT NAME</b>	<b>SID #</b>
<b>PROGRAM CHAIR</b>	<b>DATE</b>

PROGRAM REQUIREMENTS			Requested Substitution/Transfer Credits (if applicable)			Completed		
Course	Course Title	CR	College/University	Course	CR	Grade	Quarter	Year
<b>CORE COURSEWORK</b>								
<b>HCTM 310</b>	Essentials of Healthcare Informatics	<b>5</b>						
<b>HCTM 315</b>	Electronic Health Records	<b>5</b>						
<b>HCTM 320</b>	HCI Data Standards and Interoperability	<b>5</b>						
<b>HCTM 375</b>	Healthcare Informatics Project Management	<b>5</b>						
<b>HCTM 450</b>	Healthcare Analytics and Quality	<b>5</b>						
<b>HCTM 455</b>	Data Warehousing in Healthcare	<b>5</b>						
<b>HCTM 470</b>	Healthcare Data Analytics Applications	<b>5</b>						
<b>PHIL 365</b>	Biomedical Ethics: Theory and Practice	<b>5</b>						
<b>TOTAL</b>		<b>40</b>						

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 Informatics 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
- Two years of work experience in an information technology, business intelligence or healthcare setting
- BTS 168 Business Data Management Tools or equivalent
- BTS 165 Business Spreadsheet Analysis and Design or equivalent
- BA 240 Statistical Analysis, or MATH 130 Intro to Statistics or equivalent

### LEARNING OUTCOMES

Certificate recipients should possess the skills & abilities described below:

- 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

### FOR MOST UP-TO-DATE INFORMATION, GO TO:

[www.bellevuecollege.edu/programs/degrees/proftech/hctm/#dataanalytics](http://www.bellevuecollege.edu/programs/degrees/proftech/hctm/#dataanalytics)

### NOTES

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