

# Syllabus for HCA 715

## Healthcare Technology, Data Analytics, and Information Governance

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**NOTE:** This syllabus document contains the basic information of this course. The most current syllabus is available in the full course.

### Course Description

This course covers various topics including Electronic Health Records; Health IT Privacy and Security; Health Information Exchanges; IT for Revenue Cycle Management; Utilizing technology to analyze healthcare data including MS-DRG data, hospital readmission data, Medicare spending, and healthcare quality data; Technologies for diagnosis and treatment; Big Data applications in healthcare.

### Prerequisite(s)

None

### Course Outcomes

Upon completing this course, you will be able to do the following:

- Evaluate processes in healthcare facilities using technological tools.
- Apply project management principles to a healthcare IT project
- Develop strategies to implement EHR systems
- Prepare a HIPAA compliance plan from an IT perspective
- Apply statistical methods to analyze healthcare data
- Analyze healthcare data using technological tools such as spreadsheets and R.
- Evaluate healthcare quality improvement processes and quality measures.

### Course Requirements/Components

- Discussions
- Integrative Projects
- Assignments

### Grading

The following grading scale will be used to evaluate all course requirements and to determine your final grade:

Grade	Percentage Range
A	94% - 100%
A-	92% - 93.99%
B+	89%-91.99%
B	86%-88.99%
B-	83%-85.99%
C+	81%-82.99%
C	75%-80.99%
C-	70%-74.99%
D	65%-69.99%
F	Below 64.99%

Assignment (Example Table: Delete Before Saving)	Points
INTEGRATIVE PROJECT #1: Processes and Process Diagrams	55
INTEGRATIVE PROJECT #1: Project Charter, Feasibility Analysis, Cost-Benefit Analysis	55
INTEGRATIVE PROJECT #1: RFP Response Evaluation; Vendor Contracts; Maintenance Plan	55
INTEGRATIVE PROJECT #1: HIPAA Compliance	
Discussion #1 on Integrative Project: Reflection	25
INTEGRATIVE PROJECT #1: HIEs – Benefits, Risks & Issues; Patient Matching	55
Assignment #1: Healthcare billing/reimbursement processes and working with data	75
Assignment #2: RCM Processes and Technologies	75
Assignment #3: Statistical Principles in Healthcare/R/Excel	75
Assignment #4: Healthcare Data Analysis using R/Excel	75
Assignment #5: Healthcare Data Analysis using R/Excel	75
Assignment #6: Healthcare Data Analysis using R/Excel	75
INTEGRATIVE PROJECT #2: Quality Measures for Patient Health and ACOs	55
INTEGRATIVE PROJECT #2: Quality Measures data analysis related to medication errors, etc. and process improvement	55

INTEGRATIVE PROJECT #2: Quality Measures data analysis related to hospital acquired conditions, etc. and process improvement	55
INTEGRATIVE PROJECT #2: Quality Measures data analysis related to hospital acquired conditions, etc. and process improvement	55
Discussion 2: Reflection of Integrative Project #2	30
<b>Total Points</b>	1000