Syllabus for HCA 715
Healthcare Technology, Data Analytics, and Information Governance

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:
Assignment (Example Table: Delete Before Saving) | Points
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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 |
| Discussion 2: Reflection of Integrative Project #2 | 30 |
| **Total Points** | **1000** |