

**HCA 446 - Healthcare Informatics
Fall 2019 (3 credit hour course)**

Instructions for Individual Essay

You will prepare a report on some topic related to Information Technology. Topics will be selected after the first class. See example topics below. You may use the most recent APA edition formatting style. Any other style should be approved prior to handing in your report. This report will be submitted electronically via Blackboard in a format that can be read in MS Word. I only need one copy of the report from each student.

Each Report will be expected to have the following:

1. Research and prepare 4-5 page report double spaced on your topic.
2. In addition, include a bibliography using the most recent APA edition formatting style
3. Include sections that introduce the topic, provide background material, analyze available data, provide your opinion and industry opinion, and make a conclusion.
4. Be sure and answer the questions who, what, where, how, and why
5. Definition of key concepts, models, steps in the process, etc.
6. Include at least one page on the impact of your topic to healthcare.
7. Include at least one reference from an industry organization like AHIMA, HIMSS, etc.

Evaluation Criteria

Evaluation for grade

1. Clear and accurate definitions of concepts
2. Appropriateness of bibliography
3. Organization of report

Example topics:

Machine Learning	Assisted Transportation	Waterfall Development
5G Mobile Technology	Digital Currency	IT Vendor Contracting
Augmented and Virtual Reality	Offshore Development	Big Data Analytics
Enterprise Data Warehouse	Secure File Transfer Protocol	Internet of Things (IoT)
Software as a Service (SaaS)	Electronic Data Interchange	Application Program Interface
IT Contingency Planning	Cloud Computing	Extensible Markup Language
Voice Controlled Devices	JavaScript Object Notation	Clearinghouses
Syntactic & Semantic Validation	Smart Cities	Data Encryption
Bring Your Own Device (BYOD)	Wireless Networking	Data Storage Infrastructure
Social Platforms	IT Architecture	Cybersecurity
Data Privacy	User Experience (UX)	3D Printing
Team Collaboration Software	Data Science	Intellectual Property in IT
Cost Benefit Analysis in IT	Robotics	Artificial Intelligence
Data Mining	Retail Genetic Testing	Wearable Devices