Content Outline

1. Health Information Systems and Healthcare Delivery (20%)
  1.1. Identify models of health care delivery
  1.2. Differentiate between health care settings
  1.3. Outline the different components of an EHR
  1.4. Explain the different functions of EHRs for different user groups
    1.4.1. Ancillary providers
    1.4.2. Inpatient providers
    1.4.3. Outpatient providers
    1.4.4. Urban providers
    1.4.5. Rural providers
  1.5. Explain how informatics supports health care delivery
  1.6. Describe how the user needs impact EHR development and updates

2. Health Data Management (25%)
  2.1. Define health data
  2.2. Distinguish between the different types of health data
  2.3. Outline where health data is stored (Cloud, local servers, data warehouses)
  2.4. Review data completeness and accuracy for quality reporting
  2.5. Recognize the different methods for data exchange and their impact on interoperability
  2.6. Identify the types of data flow between core and ancillary systems (PACs, SNOMED, etc.)
  2.7. Describe the steps in the data life cycle
  2.8. Identify the different types of health care registries and how they impact quality improvement efforts

3. Data Reporting and Analytics (25%)
  3.1. Describe the purpose of data reporting
  3.2. Define relevant healthcare reporting standards
  3.3. Identify query languages and their use in extraction healthcare data
  3.4. Interpret data for completeness and accuracy
  3.5. Identify the code sets that are involved in data mapping and their purpose
  3.6. Describe the different types of data visualizations
  3.7. Describe ways to communicate results of data analyses to various audiences

4. Health Data Privacy and Security (20%)
  4.1. Define what constitutes a legal health record
  4.2. Explain the Health Insurance Portability and Accountability Act (HIPAA)
  4.3. Summarize how compliance affects health informatics
  4.4. Identify security threats and risks to data stored in health information systems
  4.5. Describe the role of federal and state regulations
  4.6. Describe the user roles and role-based access
  4.7. Define data governance and how it impacts data storage, access, and security

5. Project Management (10%)
  5.1. Identify internal/external Stakeholders
  5.2. Outline the 5 phases of project management
  5.3. Outline the project life cycle