

IT 4523: Clinical Processes and Workflows: Analysis and Redesign

3 Credit Hours

Prerequisite: IT 3503 or concurrent

This course introduces the fundamentals of healthcare workflow and process analysis and redesign as a necessary component of complete practice automation. Students will become familiar with the concepts of processes, process analysis and redesign in the healthcare settings. Workflow and process mapping in healthcare improvement including detailed guidance, helpful tools, and case studies are introduced.

IT 4533: Health information Security and Privacy

3 Credit Hours

Prerequisite: IT 3503

Health information security and privacy are of utmost importance in today's healthcare environment. This course introduces the concepts, practices and concerns of information privacy and security unique to the healthcare settings. The course provides the student with a thorough understanding of the HIPAA security and privacy rules, meaningful use security requirements, security risk assessment and management, and how to integrate privacy and security into medical practices. Resources of privacy and security in healthcare are provided.

IT 4603: Introduction to Blockchain Technologies

3 Credit Hours

Prerequisite: CSE 3153 or CS 3410

This course covers the foundation of IT application and innovation. Topics include but not limited to blockchain and cryptocurrencies, Bitcoin, Ethereum, smart contracts, decentralized applications, machine learning and its applications in the enterprise, security and privacy concerns, operational risks as part of the IT support transformation.