APPLIED HLTH INFORMATICS CERT (XAHI)

XAHI 100 EXPLORING INFORMATICS 3 Credit
In this introductory course the student will gain broad exposure to the field of health informatics with an emphasis on its application to clinical health care settings and consumer-focused health and wellness initiatives. Students from both clinical and non-clinical backgrounds will articulate the value of core informatics competencies for all health care professionals and will apply systems thinking to bridge the clinical and information technology worlds. This course introduces use of data standards and controlled vocabularies to facilitate interoperability and data exchange. Students will explore impacts of informatics on health care cost, access, quality and safety – through the perspectives of the patient and clinician experience in multiple settings. This course prepares the student to be an on-going learner in the field of applied health informatics. Students will be introduced to basic information literacy and writing skills (using APA format) to support successful AHI Certificate Program completion.
Co-requisite(s): XAHI 120
Grade Mode: Standard Letter, Pass/Fail
Course Offerings: Hybrid, Web Based

XAHI 120 APPLYING INFORMATICS 3 Credit
This course prepares the student to participate in the clinical information system life cycle using project management tools for design and use of safe and effective systems. It incorporates essential concepts and principles of human-technology interaction and user-centered design and their impact as they relate to error prevention and health care information technology (HIT) usability. Primary topics introduce HIT-related safety issues, practical application of clinical information and workflow process analysis, and development of recommendations for process improvement and redesign. Students will learn a common vocabulary for communicating system requirements that meet user needs, optimize usability, and promote the organization's strategic objectives.
Pre-requisite: XAHI 100
Grade Mode: Standard Letter, Pass/Fail
Course Offerings: Hybrid, Web Based

XAHI 140 LEADING INFORMATICS 3 Credit
This course prepares the student to support successful adoption of health care information technology (HIT). This course focuses on key implementation methodology, project management, and change management roles and principles. It addresses the impact of factors leading to HIT adoption success or failure in a variety of health and health care contexts. Measures and methods for qualitative and quantitative evaluation of HIT are introduced. This course prepares the student to design, implement, and evaluate effective training strategies for adult learners, including consumer-specific impacts of HIT.
Pre-requisite: XAHI 120
Co-requisite(s): XAHI 160
Grade Mode: Standard Letter, Pass/Fail
Course Offerings: Hybrid, Web Based

XAHI 160 REVEALING INFORMATICS 3 Credit
This course prepares the student to effectively communicate the data story through visualization tools and tables and to advocate for data-driven decision-making in healthcare. It emphasizes essential aspects of data quality, data integrity, and data standards as foundational for data transformation to information and knowledge. Basic data analystics tools are introduced. This course incorporates essential concepts of eClinical Quality Meaures (eCQM), clinical and business decision support, and data security. Industry trends in data science and their impacts on personalized care and population health will be explored.
Pre-requisite: XAHI 100, XAHI 120, XAHI 140
Grade Mode: Standard Letter, Pass/Fail
Course Offerings: Hybrid, Web Based

XAHI 192 SPCL TPC 3 Credit
Grade Mode: Pass/Fail, Standard Letter
Course Offerings: Hybrid, Web Based