RADIATION TECHNOLOGY/ IMAGING INFORMATICS (RTII)

Courses

RTII 354. Introduction to Informatics. 3 Units.
Overview of computer fundamentals. Provides in-depth insight into a picture-archiving and communication system (PACS). Includes, basic terminology, computed radiography, digital radiography, hospital information systems, radiology information systems, DICOM, and HL-7.

RTII 356. Information Technology in Radiology. 3 Units.
Principles of developing and maintaining a radiology health care network. Addresses network design, critical problem-solving, and troubleshooting. Includes basic terminology, network components, network design and implementation, storage and archive assessment, hardware and software implementation databases, IT standards, and IT replacement schedules.

RTII 358. PACS Planning and Implementation. 3 Units.
Presents steps needed to procure a picture-archiving and communications system (PACS) in a radiology department of any size. Focuses on organizational readiness, proposal requests, vendor selection, contracts, and cost strategies. Develops critical thinking for planning, team-building, and project management.

RTII 364. Administrative Issues in Informatics. 3 Units.
Focuses on issues in informatics faced by a picture-archiving and communications system (PACS) administrator. Facilitates understanding of the architecture of a PACS and the details of running the business aspects of such a system. Topics include, but are not limited to; project management, operations management, relationships in health care, quality-improvement procedures, emergency protocols, and compliance with federal regulations.

RTII 368. Communication and Education in Imaging Informatics. 3 Units.
Focuses on the basic communication skills a picture-archiving and communications systems (PACS) administrator should possess. Topics include, but are not limited to: relationships in health care, medical terminology, educational concerns, feedback mechanisms, evaluation processes, effective communication, and quality education and training programs. Online instruction utilizes Blackboard, text, video, PowerPoint, and other interactive online resources.

RTII 374. Image Management in Informatics. 3 Units.
Focuses on basic image-management tasks that a picture-archiving and communications system (PACS) administrator must complete on a daily basis. Topics include but are not limited to: environmental design, human-computer interface evaluation, database retrieval, and problem solving. Online instruction using Blackboard incorporates text, video, PowerPoint, and other interactive resources.

RTII 378. Systems Management in Informatics. 3 Units.
Focuses on basic systems management tasks that a picture-archiving and communications system (PACS) administrator must complete on a daily basis. Topics include but are not limited to: capacity and throughput. disaster recovery and continuity, problem management, data migration, and data security. Online instruction using Blackboard incorporates text, video, PowerPoint, and other interactive resources.

RTII 384. Advanced Imaging Informatics. 1 Unit.
An in-depth study of advanced imaging informatics integration standards and informatics architecture designs required of a picture archiving and communications system (PACS) administrator.

RTII 386. Certification Exam Review. 2 Units.
Reviews major content areas emphasized on the American Board of Imaging Informatics (ABII) board exam. Provides student evaluation and performance analysis using simulated board exams.