

RADIOLOGY INFORMATICS, Associate in Applied Science Degree - 3786

Health & Public Service Department

The Radiology Informatics AAS program prepares students to enter the field of medical imaging informatics as Picture Archiving and Communication Systems (PACS) Administrators and Radiology Informatics Professionals. Students are taught computer and radiology imaging basics, PACS interface and system analysis, project management and quality control, Digital Imaging and Communications in Medicine (DICOM) and Health Level 7 (HL7) messaging systems, and electronic health records (EHR), in addition to basic human biology. Students gain oral and written communication skills to aid them in working in the informatics team and healthcare environments. Students are able to design and implement a “PACS Plan” for an imaging department within a health care facility. Graduates are prepared to take all three levels of certification exams through the PACS Administrators Registry and Certification Association-(PARCA). Additionally, graduates with a minimum of two years previous experience in healthcare imaging or imaging informatics, meet the educational and continuing education requirements for taking the American Board of Imaging Informatics Certification (ABII). Students are required to complete 40-hours of shadowing in an approved medical imaging department. Facilities may require students to complete a physical examination, a drug and alcohol screening, a Child Abuse History Clearance, the Federal Criminal Record Check and/or the State Police Criminal Record Check prior to the shadowing experience and/or employment. The complete program is only available at the Lancaster Campus.

Career Opportunities

Graduates are prepared to work in medical imaging and information technology settings that utilize digital imaging, PACS, and Radiology Information System (RIS) as a radiology informatics specialist/PACS administrator. Graduates are also prepared to work in PACS equipment retail, PACS sales, and radiology informatics/PACS support services.

Competency Profile

This curriculum is designed to prepare students to:

- Function as an entry-level imaging informatics (PACS) administrator
- Demonstrate critical thinking and problem solving skills
- Demonstrate professional behavior while functioning as an informatics specialist
- Demonstrate effective communication skills
- Demonstrate effective project management skills
- Apply imaging informatics legal and ethical standards in the professional environment
- Comply within applicable imaging informatics professional standards
- Use appropriate safety practices within the clinical environment

PROGRAM REQUIREMENTS (TOTAL CREDITS = 69)

General Education		Major Requirements		Other Required Courses	
ENGL 101 English Composition I	3	RADI 100 DICOM	2	CIS 105 Intro to Software for Business	3
ENGL 106 Business Writing	3	RADI 101 Health Level 7	3	CIS 140 Intermediate Micro Database	3
COMM 203 Interpersonal Communication	3	RADI 102 RADI Regulations, Quality Control, & Security	3	CNT 120 Network Comm. Tech I	3
Humanities/Arts Elective - SPAN 104	3	RADI 125 RADI Hardware & Support	3	RADT 104 Intro to Radiology Informatics	4
Mathematics or Science Elective – BIOL 111	3	RADI 202 PACS Analysis	4	RADT 110 Radiology Basics for Informatics	4
Social & Behavioral Science Elective	3	RADI 203 RADI Advanced Concepts EHR	2		17
First-Year-Seminar Elective	1	RADI 204 RADI Advanced Concepts Cardiology	2.5		
Wellness	1	RADI 205 RADI Project Management	4		
	20	RADI 206 RADI Advanced Concepts Business Analytics	2.5		
		RADI 210 RADI Internship I (or)	3		
		RADI 212 RADI Seminar I	(3)		
		RADI 211 RADI Internship II (or)	3		
		RADI 213 RADI Seminar II	(3)		
			32		

Note: A grade of C or higher is required for all courses in the following disciplines: BIOL, COMM, CIS, CNT, RADI, and RADT.

