

# RADIOLOGY INFORMATICS, Associate in Applied Science Degree - 3786

Health Careers Department

CIP Code: 51.2706

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. This program may be completed entirely through asynchronous instruction.

## 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 = 62)

General Education		Major Requirements	Other Required Courses	
ENGL 101 English Composition I	3	RADI 100 DICOM	CIS 105 Intro to Software for Business	3
COMM 203 Interpersonal Communication	3	RADI 101 Health Level 7		
Humanities/Arts Core Elective - <i>SPAN 104</i>	3	RADI 102 RADI Regulations, Quality Control, & Security		
Mathematics <b>or</b> Science Core Elective – <i>BIOL 111</i>	3	RADI 104 Intro to Radiologic Technology for RADI		
Social & Behavioral Science Core Elective	3	RADI 110 Radiologic Basics for Informatics		
First-Year-Seminar Elective	1	RADI 125 RADI Hardware & Support		
Wellness Elective	1	RADI 202 PACS Analysis		
	17	RADI 203 RADI Advanced Concepts EHR		
		RADI 204 Advanced Concepts CPACS		2.5
		RADI 205 RADI Project Management		4
		RADI 206 Advanced Concepts Business Analytics		2.5
		RADI 210 RADI Internship I ( <b>or</b> )		4
		RADI 214 RADI Certification Exam Prep I (Technical)		(4)
		RADI 211 RADI Internship II ( <b>or</b> )		4
		RADI 215 RADI Certification Exam Prep II (Clinical)		(4)
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**Note:** Students must complete all RADI courses with a minimum grade of C to graduate.

### **RECOMMENDED SEQUENCE FOR FULL-TIME STUDENTS**

Part time students can complete this program by taking one or more courses each semester.

<b>Fall Semester I</b>		<b>Spring Semester I</b>		<b>Summer I</b>		<b>Fall Semester II</b>		<b>Spring Semester II</b>	
CIS 105	3	ENGL 101	3	RADI 202	4	COMM 203	3	BIOL 111	3
FYS Elective	1	RADI 102	3	RADI 203	2	RADI 204	2.5	RADI 206	2.5
RADI 100	2	RADI 110	4	Wellness Elective	1	RADI 205	4	RADI 211 <b>or</b> 215	4
RADI 101	3	RADI 125	3			RADI 210 <b>or</b> 214	4	Social/Behavioral Science Core Elective	3
RADI 104	4							SPAN 104	3