

IDAHO STATE UNIVERSITY – Program Assessment Summary Report

Program: Radiographic Science

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College: SHP

PURPOSE OF THE RADIOGRAPHIC SCIENCE PROGRAM

The Radiographic Science Program is designed to develop the technical skills and knowledge necessary for the student to satisfactorily function in the role of a radiologic technologist. The program seeks to provide pertinent learning experiences which will enable the student to demonstrate competency in the technical aspect of the profession as well as the human relations aspect. The program further seeks to develop the students' interests in the professional societies as well as the possibilities for continuing education.

The Radiographic Science Program is eighteen months in duration after completing the necessary prerequisites. During this two-year period, the student will receive didactic experience at the University, combined with clinical experience at the affiliated hospitals and clinics. The student can earn a Bachelor of Science degree after satisfactorily completing the appropriate curriculum. Upon satisfactory completion of the radiographic science curriculum and prerequisites, the student is eligible to write the national registry examination for radiologic technologists sponsored by the American Registry of Radiologic Technologists (ARRT).

Bachelor of Science in Radiographic Science

The Bachelor of Science degree is a four-year curriculum. During the first two years the student takes general education, basic science, and business courses at the University. During the two professional years, the student studies and practices the clinical application of radiography at the University's energized laboratory and at affiliated hospitals. Upon completion of the program, the graduate is eligible to take the national examination for certification administered by the ARRT.

A variety of assessment methods are used to determine if the student is achieving the goals of the program. Some of these include: tests, laboratory exercises, projects, assignments, student demonstrations, image critiques, observation, and performance evaluations.

The Radiologic Technologist is one of many individuals who work together as a team to meet the needs of the medical community and society by providing patients with the best possible care. Because of the rapid growth of the medical field, there is an ever increasing need for radiologic technologists.

PROGRAM PHILOSOPHY

Idaho State University's Radiographic Science Program was developed with the philosophy that didactic education and clinical experience, which includes "hands on" should happen together for continuity during learning. Therefore, during the entire program the student learns in the laboratory

setting and applies those skills acquired in the clinical setting. This happens on a weekly basis. Furthermore, in the classroom students acquire the theoretical information necessary to perform as technologists. The next step involves laboratory experiences where the opportunity to apply technological skills is acquired by using phantoms and simulations. Students then progress and perfect their skills by working with technologists in a clinical environment. Additionally, several of the classes are taught by the Physics, Biology, and Healthcare Administration Faculties. This is atypical of most Radiographic Science programs and is a unique feature that sets the program apart from other programs. Our philosophy is students who learn from experts become experts. When graduation approaches students are ready to enter the profession confidently.

MISSION STATEMENT

The Mission of the Radiographic Science Program is to provide students with both the academic and technical foundations to competently and safely perform Radiologic procedures, to prepare qualified imaging technologists who will ethically respond to the needs of patients with technical competence and compassion, and to assume a vital professional role as a medical team member.

Vision

Prepare leaders in radiography for today and tomorrow by providing baccalaureate education.

Core Values

- Academics – Promoting excellence in all academic endeavors.
- Knowledge – recognizing the significance of new knowledge in a profession that is predisposed to change while maintaining traditional values and emphasizing the needs of the patient.
- Dedication – to help meet the statewide and regional needs by providing access to quality education to prospective students.
- Community – to help meet the needs of the community in the health care setting by providing competent, qualified, technologists who are eligible upon graduation to sit for the national certification examination in radiography sponsored by the American Registry of Radiologic Technologists (ARRT)

PROGRAM GOALS/OUTCOMES

The Radiographic Science Program faculty promotes knowledge and discovery for all students in our program by committing to the following goals:

1. Students will use critical thinking and problem-solving skills.
2. Students/graduates will be clinically competent.
3. Students will be able to effectively communicate.
4. Students will demonstrate the importance of professional growth and development.

Student Driven Effectiveness Assessment

The Radiographic Science Program and the Division of Health Sciences also administers a Student Driven Effectiveness Assessment each semester. This assessment is a method used to evaluate the program from the vantage point of our customer, the student. Continuous Quality Improvement guides program officials in looking for opportunities to improve in all aspects of the collegiate experience provided to our customer. The assessment includes a four question evaluation administered at the end of each semester. Students are asked to answer the following questions:

1. Has the Radiographic Science Program met your expectations?
2. Would you recommend the Radiographic Program to another student?
3. List the Top 3 Positive experiences this semester.
4. List 3 things that would enhance the experience in the Radiographic Science Program.

This assessment tool, which includes all student responses, an evaluation by faculty, an action plan, follow-up, and all survey results, can be reviewed on the department Web site. It is titled "Division of Health Sciences Student Driven Effectiveness Assessment Plan, and is located at the bottom of the page at the following hyperlink:

[Division of Health Sciences Student Driven Effectiveness Assessment](#)

Outcomes Assessment Plan

Radiographic Science Program

The Radiographic Science Program at Idaho State University will provide a quality and diverse education that enables our graduates to become a valuable member of the health care team.

(The cycle of assessment for the plans below was August 2016 – July 2017)

Goal 1: Students will use critical thinking and problem-solving skills.					
Outcome	Measurement Tool	Benchmark	Timeframe/Responsible Party	Results	Analysis/Action Plan
1. Students will select appropriate scholarly and peer-reviewed journal articles.	RS 4450 Annotated Bibliography rubric criteria "Article"	Average score >90% for the "article" criteria on all 3 annotated bibliography assignments	4 th semester Course instructor	n=21	
2. Students will modify routine imaging parameters for trauma patients.	RS 3340 Lab Trauma Scenario assessment	Average score ≥ 4 on a 5 point Likert scale	1 st and 2 nd semester	n=21	

Goal #2: Students/graduates will be clinically competent.					
Outcome	Measurement Tool	Benchmark	Timeframe/Responsible Party	Results	Analysis/Action Plan
1. Students will apply positioning skills.	RS 3342 Clinical Competency Form (Sampling of four competencies per student)	Each exam is worth 25 points for a possible 100 point total. Average score of >80%.	4 th Semester Clinical Coordinator	n=21	
2. Students will have no greater than 2 simulations when applying to sit the ARRT exam.	Competency Spreadsheet	< 2 simulated exams	5 th Semester Program Director/Clinical Coordinator	n=21	
3. Students will demonstrate knowledge in radiation protection.	RS 3388 Radiation Protection-Comprehensive Final Exam Grades	Average score > 80%.	2 nd Semester Course Instructor	n=21	

	Every year students will complete annual radiation training through the technical safety office.	All students will score 100%	1 st and 3 rd Semester Clinical Coordinator	n=21	
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Goal 3: Students will be able to effectively communicate.					
Outcome	Measurement Tool	Benchmark	Timeframe/Responsible Party	Results	Analysis/Action Plan
1. Students will write clearly using AMA and ASRT style format.	RS 4450 quiz "ASRT Style Guide"	All students will receive a >80% at on the quiz	4th Semester Course Instructor	n=21	
2. Students will communicate clearly to the CI's by completing an inventory analysis of contrast media used in the clinical environment.	RS 3342 Lab Worksheet	>80% on the clinical site contrast media inventory assignment for Imaging of the lower GI.	4th Semester Clinical Coordinator	n=21	
3. Students will demonstrate proper and effective communication with patients during an exam.	RS 3340 Lab final communication score	Average score >90%	1 st semester Course instructor	n=21	AIDET

Goal #4: Students will demonstrate the importance of professional growth and development.					
Outcome	Measurement Tool	Benchmark	Timeframe/Responsible Party	Results	Analysis/Action Plan
1. Students will advance professionally by performing qualitative research.	RS 4450, Senior students will write an 8-10 page literature review or case study and submit the work to a professional society competition.	All students will receive a >80% at the completion of the paper and an ISU student will place 1 st , 2 nd , or 3 rd place at the ACERT and/or ISRT conference.	4 th Semester Faculty	n=21	
	RS 4430, Senior students will develop a poster presentation and submit the work to a professional society competition.	All students will receive a >80% at the completion of the poster and will place 1 st , 2 nd , or 3 rd place at the ISRT conference.	5th Semester Faculty	n=21	
2. Students will advance professionally by joining state and national professional societies.	ASRT membership	All students will join the ASRT	Program Director	n=42	
	ISRT membership	All students will join the ISRT	Clinical Coordinator	n=42	

Program Effectiveness Measures (1/1/2016-12/31/2016)					
Outcome	Measurement Tool	Benchmark	Timeframe/Responsible Party	Results	Analysis/Action Plan
1.Students will pass the national certification examination on the 1 st attempt.	National Certification Exam 1 st Time Pass Rates	100% each year	6 months post graduation (or upon completion by all) Program Director	2012: 100% 2013: 100% 2014: 94.7% 2015: 100% 2016: 5 year average =	
2.Students who are actively seeking a job will be gainfully employed within 6 months post-graduation.	Graduate Survey Or “word of mouth” On line Alumni Survey	75% or higher yearly 75% 5 year average	post graduation survey Program Director Clinical Coordinator	2012: 77% 2013: 94.6% 2014: 100% 2015: 100% 2016: 5 year average=	
Job Placement Rate 1 year from graduation for those actively seeking a job.	Graduate Survey or “word of mouth” On line Alumni Survey	75% of those actively seeking employment within 12 months of graduation	12 months post graduation Program Director/Clinical Coordinator	2011: 89% 16/18 2012: 89% 16/18 2013: 100% 17/17 2014: 100% 17/17 2015: 5 year average =	
Students will complete the program.	Graduation roster	100%	End of program Program Director	n=21 2016=	
Graduates will be satisfied with their education by feeling prepared for their 1 st job.	Graduate Alumni Survey	≥ 4 (5 point scale)	Alumni Survey Program Director	n=21 2016 =	
Employers will be satisfied with the performance of newly hired technologists	Employer Survey	≥ 4.0 (5point scale)	12 months post graduation Program Director	n=20 2015=	
Faculty will review curriculum yearly.	Documentation in advisory committee meeting minutes or during JRCERT self study phase.	100% each year	Fall Semester Program Director	2016=	