2017-18
Radiologic Science Program
Assessment Report

Program Mission

The purpose of the Radiologic Science Bachelor's (RDSC) Degree Program at Oregon Institute of Technology is to provide graduates with the knowledge, clinical skills, and compassion that will allow them to become exemplary medical imaging technologists and future leaders in radiology and advanced or post-primary imaging professions.

Program Alignment to Oregon Tech Mission and Core Themes

The Oregon Tech Radiologic Science program is the quintessential example of the University mission and core themes by providing students a unique hands-on learning experience in the field of medical imaging. Once a student is accepted into the Radiologic Science (RDSC) program, he/she will be exposed to learning opportunities including on campus didactic training and extensive laboratory experiences followed by an 11-month externship in the real-world clinical setting applying theory and skills that were presented on campus.

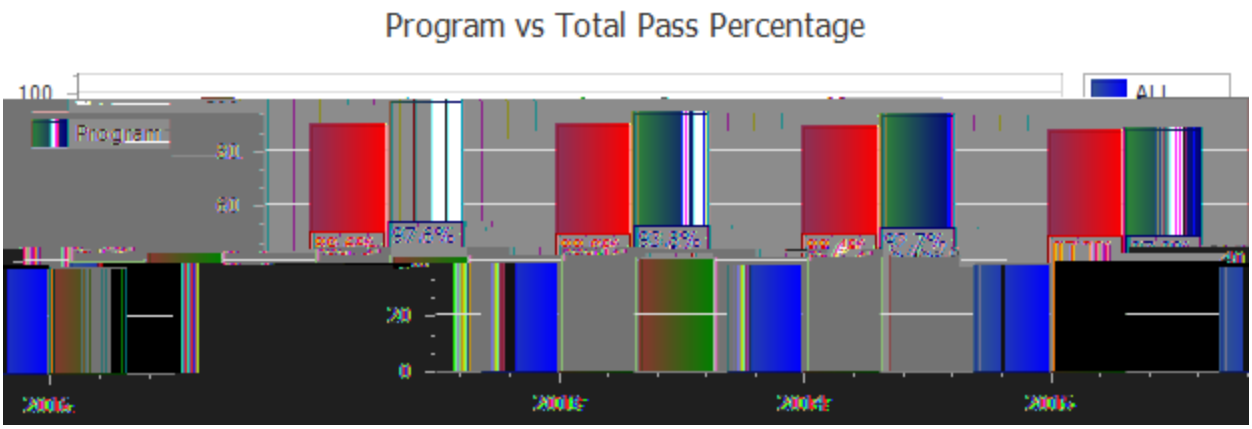
The RDSC student also exceeds the didactic training requirements in multiple post-primary modalities (MRI, CT, MammogTc33phppl30.53 -1.1(ni)-1 (n (c)-3 .oT I)-1 (n m-)1 Heavy modality of EM/MCIDMRxam -primary modality national registry competencies as required by th

The Oregon Tech RDSC graduate can fit two un

accepted into medical school while on externship. The other goal for the program is to have each cohort score at or above the national average in five criterions plus the percent of pass rate. Until 2017 the five criterions were:

A. Radiation Protection
B. Equipment Operation and Quality Control
C. Image Acquisition and Evaluation
D. Imaging Procedures
E. Patient Care and Education

Radiography										
2013	ALL	11684	8.6	8.2	8.1	8.5	8.6	84.1		89.6
2013	Program	42	8.8	8.4	8.4	8.8	8.9	86.8	72	97.6
2014	ALL	11831	8.5	8.1	8.2	8.5	8.5	83.8		88.9
2014	Program	48	8.7	8.1	8.3	8.7	8.8	85.3	60	93.8
2015	ALL	11485	8.4	8.0	8.2	8.4	8.6	83.7		88.4
2015	Program	41	8.6	8.2	8.3	8.7	9.0	85.8	64	92.7
2016	ALL	11740	8.4	8.2	8.3	8.4	8.3	83.3		87.2
2016	Program	49	8.1	7.8	8.2	8.6	8.4	82.7	45	87.8



In 2017 the ARRT changed the criterions and added subgroups allowing radiology programs to better analyze their outcomes. The eight criterions are:

Patient Care

1. Patient Interactions and Management

Safety

2. Radiation Physics and Radiobiology
3. Radiation Protection

Image Production

4. Image Acquisition and Technical Evaluation
5. Equipment Operation and Quality Assurance

rriculum Map

DSC 1		P			F			F	F
HY 7					F			P	
DSC 2		P	P		P			F	P
DSC 5	P			P		P	F		
DSC 0	P		P	P		P	F	P	P
DSC 1	P		P	P	P	P	P	P	P
DSC 3				P				P	P
DSC 5			P				P	F	
DSC 2					P				P
DSC 1	P		P	P	P	P	P	P	P
DSC 0		P	P	P		P	P	P	P	P

Assessment Cycle						
PSLO #1 Communication effectively in the health care setting.			P			P
PSLO #2 Demonstrate effective critical thinking and problem solving skills in the health care setting.	P I			P		
PSLO #3 Demonstrate professional conduct and ethical decision making in the health care setting.		P I			P	
PSLO #4 Demonstrate teamwork skills while conducting patient procedures.			P I			P I
PSLO # 5 Demonstrate knowledge of x-ray physics and related math in the medical imaging setting.	P			P I		
PSLO # 6 Demonstrate diverse perspective in the health care setting.		P			P I	
PSLO #7 Demonstrate effective patient care skills.	P			P		
PSLO #8 Demonstrate technical ability in the medical imaging setting.		P			P	
PSLO #9 Demonstrate radiation safety for self, staff, and patients as set forth by the ALARA standard.			P			P

Program Student Learning Outcomes Assessment Cycle Courses

Communication effectively in health care setting.			RDSC 202 RDSC 205 RDSC 211 RDSC 410			RDSC 202 RDSC 205 RDSC 211 RDSC 410
Demonstrate effective critical thinking and problem solving skills in the healthcare setting.	RDSC 320 RDSC 410			RDSC 320 RDSC 410		
Demonstrate professional conduct and ethical decision making in the healthcare setting.		RDSC 202 RDSC 205 RDSC 211 RDSC 410			RDSC 202 RDSC 205 RDSC 211 RDSC 410	
Demonstrate teamwork skills while conducting patient procedures.			RDSC 202 RDSC 205 RDSC 211 RDSC 410			RDSC 202 RDSC 205 RDSC 211 RDSC 410

PSLO 2 - Demonstrate effective critical thinking and problem solving skills in the healthcare setting.

- RDSC 320 Surgical, Trauma, and Mobile Radiography
  - Students are tested in a practicum format where they are given a scenario and they have to perform some sort of surgical or mobile radiographic procedure. After the procedure the scorer has them evaluate their performance, explain their reasoning, and develop an alternate method to perform the same procedure.
- RDSC 410 – Clinical Externship
  - Students are observed by medical imaging professionals in a health care facility for a total of 11 month months while the students perform medical imaging duties. The CI documents their observations in the student's professional evaluation then responds to an end of the year survey that asks "In your opinion, how well did the Oregon Tech RDSC program prepare your extern student(s) in the following subjects?"

RDSC 320 Practical Exam

Assessment method	Measurement scale	Minimal acceptable performance	Proficiency	High Proficiency
Rubric scored lab project	1 – 4 proficiency	80% at 3 or 4	66.67% (32)	31.25% (15)

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instructors rated 81

Venipuncture	Rubric scored presentation	1 – 4 proficiency	90% at 3 or 4	100%
Transfer of patient	Rubric scored presentation	1 – 4 proficiency	90% at 3 or 4	100%

7. Thorax and Abdomen Procedures
8. Extremity Procedures

Data-driven Action Plans: Changes Resulting from Assessment

Steps were taken to improve the Oregon Tech RDSC program comparison to the national average for radiologic science programs as described above.

OREGON INSTITUTE OF TECHNOLOGY
Medical Imaging Department
RDSC SELF PROFESSIONAL EVALUATION 20xx

Student's Name:_____ **Course:**_____ **Date:**_____

Faculty/Evaluator:_____

Performance Rating: **Use the following scale to evaluate the student. A number range may be used.**

E	**(P)**	**Exceptional**	**Performance exceeds expectations for skill level**	**Performanc (i)-6 (s)-1.7 (a)2.6**