

## **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, Mammography, and Interventional) as stated by the American Registry of Radiologic Technologists (ARRT). The student is then allotted a minimum of 12 weeks' clinical application where he/she can complete clinical competencies as required by the ARRT to sit for the post-primary modality national registry exam.

The Oregon Tech RDSC graduate can fit two unique niches in Oregon and throughout the Pacific Northwest:

1. Rural healthcare facilities prefer hiring technologists that are multimodality trained to reduce staffing burden.
2. Urban healthcare facilities prefer hiring technologists that have specialized training in a single post-primary imaging modality rather than cross-training a general radiographer.

**Core Theme 1: Applied Degree Programs:** We are dedicated to providing the highest quality education in the medical imaging as demonstrated through the caliber of our faculty, the tremendous success of our alumni, and the enthusiastic support of health care facilities.

**Core Theme 2: Student and Graduate Success:** Our aim is to continue to partner with high potential students, from diverse backgrounds and perspectives, and assist them in becoming medical imaging leaders at the national level as well as organizational leaders.

**Core Theme 3: Statewide Educational Opportunities:** We will continue supporting bold intellectual pursuits that advance and expand the medical industry's comfort zone in order to improve and innovate the quality of individual patient care.

**Core Theme 4: Public Service:** We strive to partner with communities, industry, other colleges and universities, and private citizens to develop community-based solutions to community problems.

## **Program Educational Objectives**

The following objectives are what the faculty expect graduates from this program to be able to accomplish upon graduation from the RDSC program:

- Be compassionate, caring healthcare professionals.
- Be eligible, well-prepared, and able to sit for and pass the ARRT credentialing examination.
- Have immediate job placement within six months of graduation.
- Work in advanced imaging fields and sit for advanced imaging registries.

## Program Description and History:

The Oregon Tech Radiologic Science (RDSC) program was founded as a certificate program in 1952, it evolved into an associate degree program then transitioned into the first RDSC bachelor's degree offered in the United States. The program now boasts that every graduate is prepared to take the national registry exam administered by the American Registry of Radiologic Technologists (ARRT) and exceeds the didactic requirements for post-primary imaging modalities (MRI, CT, mammography, and interventional radiography). The senior year is an 11-month externship that is spent in a healthcare facility where students complete a minimum of 52 competency exams as required by the ARRT. In some cases, students can complete the 125 competency exams in a post-primary modality as well; allowing them to be dual certified in general radiography and one of the advanced modalities listed above. By providing this opportunity to our students the RDSC program has been better able to meet industry needs in rural and urban healthcare facilities in the Pacific Northwest with the versatility of our graduates.

**Program Location: Klamath Falls campus only.**

## Program Enrollment

The five-year history of enrollment numbers includes the online RDSC degree completion program, so they appear slightly elevated. The on-campus program accepts 48 students each spring from an applicant pool of 75 to 100 students. The attrition rate has been below 5% resulting in a total enrollment of 138 to 144 RDSC students each year. The program limits its enrollment in an attempt to maintain equilibrium between industry needs and graduates produced each year. There are indicators that industry demand for imaging professionals is increasing; therefore the program increased the number of accepted students resulting in a 2019-20 sophomore cohort of 55 students.

Fall 2013	Fall 2014	Fall 2015	Fall 2016	Fall 2017	Fall 2018	Fall 2019
163	154	160	152	154	157	

## Program Graduations

As stated in the program enrollment, the data has been aggregated to include the on-line degree completion graduates. Again, the data demonstrates annual consistency of graduates for past 5 years. This is one of the indicators of program sustainability that the faculty have struggled to achieve. Prior to implementing the student selection process the program had cyclical enrollment highs and lows that followed with the same cyclical industrial demand of technologist saturation and need. This equilibrium has been positive for the program, graduates, and industry alike in the opinion of the faculty.

2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20
51	50	48	55	45	57	47	52	48	44

## Employment Rates and Salaries

The data indicates that the 2019 graduate employment success rate at 100% of survey respondents with a median salary of \$54,500/year (n=44). A majority of the data was collected within a month of graduation. This meets one of the program objectives to have graduates that are leaders in advanced modalities. The faculty are currently exploring tools that would collect more accurate data at 6, 12, and 24 months' post-graduation surveys to better evaluate alumni success.

## Pass Rates on Board and Licensure Exam

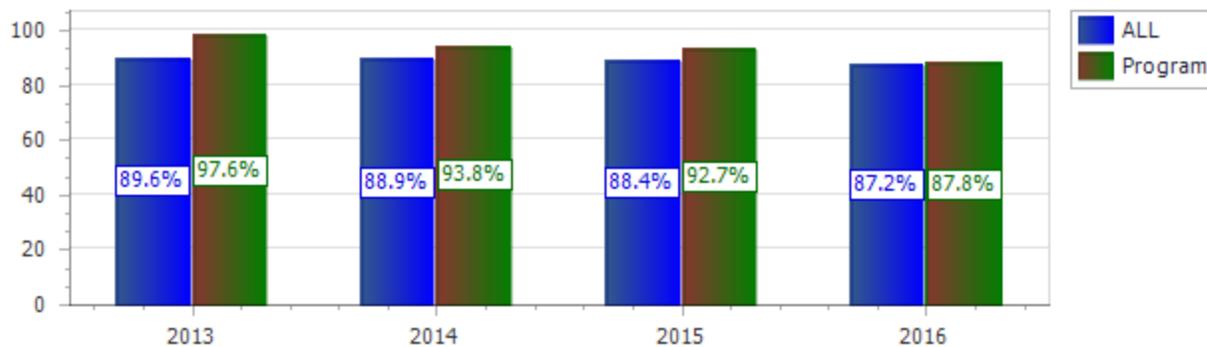
It is the program goal to have a 100% pass rate on the American Registry of Radiologic Technologists national exam for graduates that actually attempt. Upon reviewing the student pass rate we discovered the not all of our graduates passed the exam on their first attempt. Faculty have discussed this and have decided to set the program goal to have a 100% first attempt pass rate. This is a lofty goal but one that we strive for each year. Over the past 12 years only five students that have applied for the examination are not documented as being successful in passing it. Three of these students did not attempt the exam after registering due to various reasons, one of which was

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 criteria plus the percent of pass rate. Until 2017 the five criteria were:

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

Report based on dates from 01/2013 through 12/2016										
Radiography										
Calendar Year	Group	Number Candidates	Section Means					Total Mean	Percentile Rank	% Pass
			A	B	C	D	E			
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

Program vs Total Pass Percentage



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

## Procedures

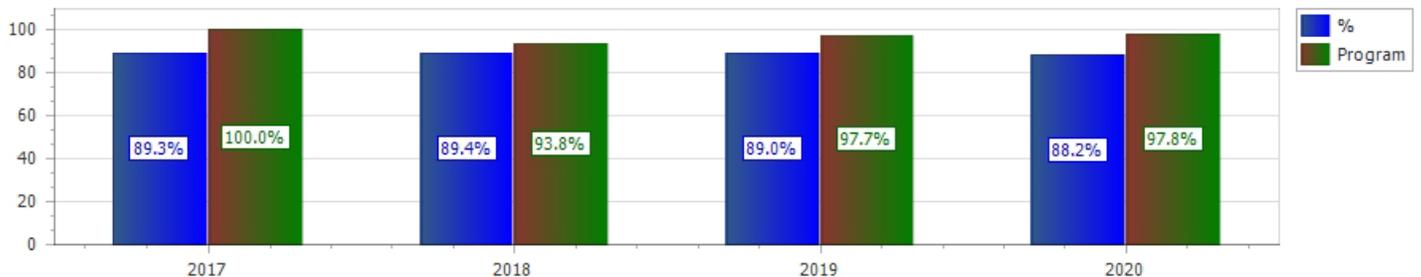
6. Head, Spine and Pelvis Procedures
7. Thorax and Abdomen Procedures
8. Extremity Procedures

Report based on dates from 01/2017 through 12/2018

### Radiography

Calendar		Number	Section								Means	Total	Percentile	
Year	Group	Candidates	1	2	3	4	5	6	7	8	Mean	Rank	%	
2017	ALL	11166	8.4	8.2	8.2	8.2	8.1	8.9	8.4	8.7	83.6		89.3	
2017	Program	41	8.9	8.5	8.7	8.5	8.5	9.0	8.8	8.9	87.1	72	100.0	
2018	ALL	11,571	8.6	8.3	8.5	8.2	8.0	8.1	8.1	8.8	83.6		89.4	
2018	Program	48	9.0	8.5	8.8	8.6	8.1	8.4	8.2	9.0	86.3	64	93.8	
2019	ALL	11,769	8.4	8.2	8.2	8.1	8.1	8.5	8.4	8.6	83.4		89.0	
2019	Program	44	9.0	8.6	8.8	8.5	8.4	8.7	8.6	8.9	86.8	72	97.8	
2020	ALL	10,849	8.4	8.4	8.3	8.3	8.2	8.4	8.3	8.5	83.3		88.2	
2020	Program	46	8.7	8.5	8.7	8.4	8.2	8.6	8.5	8.8	85.8	64	97.8	

Program vs Total Pass Percentage



## National Registry Exam Data Analysis

The Oregon Tech Radiologic Science graduate success rate for passing the national registry exam is not accurately reflected in the above data. Upon drilling down in the data, the program assessment coordinator found that if a graduate does not take the exam in the same calendar year they applied, it counts as a non-pass. A second finding was that if a student is unsuccessful on their first attempt but is successful on the second or third attempt, it is not captured in the program comparison data. The 97.8% pass rate for 2020 was actually first attempt pass rate. It was determined that the actual program pass rate of the Oregon Tech RDSC program was 100% after further analysis. The goal of exceeding the category national average has been achieved over the past eight years (yellow highlight), barring 2016 categories A, B, and C (red text).

## Showcase Learning Opportunities

During 2018-19 a partnership was developed with Konica-Minolta Healthcare that will lead to new learning opportunities for RDSC students. Students will have an opportunity to beta test new imaging software as it is being

developed, participate in project based learning in applied research, and test/develop positioning devices for the hybrid imaging machines.

RDSC students have additional learning opportunities through participation in Association of Collegiate Educators in Radiologic Technology (ACERT) conferences held in Las Vegas each year and attendance at the Oregon Society of Radiologic Technologists conference. Sophomore and junior students are registered as student members of the OSRT while seniors on externship register as student members of the American Society of Radiologic Technologists. These memberships provide excellent opportunities for students to network, participate in society activities, and have access to a robust library of resources.

The RDSC program offers an elective course of cadaver imaging where students learn in a team setting that promotes problem solving and discovery. Summer of 2019 one of the teams presented their findings at a continuing education conference for radiologic technologist.

While all RDSC students are required to successfully complete courses in MRI, CT, and interventional radiography, the program offers elective imaging courses in mammography, advanced MRI, cadaver imaging, and advanced CT. On externship, students are allotted 12 weeks to participate in one or multiple post-primary modalities to gain experience and have the potential to complete competencies for the ARRT registry exam.

### **Program Student Learning Outcomes**

From the RDSC objectives the program faculty believe that every student in the program should possess the following abilities that are measured by observation throughout the students' educational experience at Oregon Tech:

- An ability to practice organizational skills using prioritization.
- An ability to demonstrate quality work in the didactic and laboratory settings.
- An ability to comprehend radiologic theory and principles and apply them in the laboratory setting.
- An ability to work in a stressful environment and perform effectively in under pressure.
- An ability to use good judgement and critical thinking skills.
- An ability to demonstrate confidence in their knowledge and skills.
- An ability to demonstrate attention to details and follow instructions.
- An ability to practice initiative.
- An ability to approach tasks and duties with a positive attitude.
- An ability to accept and apply constructive criticism.
- An ability to be punctual and reliable.
- An ability to practice positive interpersonal skills with faculty, classmates, other professionals.
- An ability to effectively work in a team setting.

## Curriculum Map

Course	PSLO #1 ESLO #1	PSLO #2 ESLO #2	PSLO #3 ESLO #3	PSLO #4 ESLO #4	PSLO #5 ESLO #5	PSLO #6 ESLO #6	PSLO #7	PSLO #8	PSLO #9
RDSC 201		P			F			F	F
PHY 217					F			P	
RDSC 202		P	P		P			F	P
RDSC 205	P			P		P	F		
RDSC 210	P		P	P		P	F	P	P
RDSC 211	P		P	P	P	P	P	P	P
RDSC 233				P				P	P
RDSC 235			P				P	F	
RDSC 272					P				P
RDSC 301	P		P	P	P	P	P	P	P
RDSC 320		P	P	P	P	P	P	P	P
RDSC 326			P	P	P	P	P		P
RDSC 410	C	C	C	C	C	C	C	C	C

**F = Foundational**

**P = Practice**

**C = Capstone**

<b>Assessment Cycle</b> Radiologic Science Outcome Assessment	2018 2019	2019 2020	2020 2021	2021 2022	2022 2023	2023 2024
<b>ESLO #1 Communication</b> PSLO #1 Communication effectively in the health care setting.		P			P I	
<b>ESLO #2 Inquiry &amp; Analysis</b> PSLO #2 Demonstrate effective critical thinking and problem solving skills in the health care setting.			P			P I
<b>ESLO #3 Ethical Reasoning</b> PSLO #3 Demonstrate professional conduct and ethical decision making in the health care setting.	P I			P		
<b>ESLO #4 Teamwork</b> PSLO #4 Demonstrate teamwork skills while conducting patient procedures.		P I			P	
<b>ESLO #5 Quantitative Literacy</b> PSLO # 5 Demonstrate knowledge of x-ray physics and related math in the medical imaging setting.			P I			P
<b>ESLO #6 Diverse Perspective</b> 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	

**P = Program Assessment Cycle**

**I = Institutional Assessment Cycle**

## Program Student Learning Outcomes Assessment Cycle Courses

<b>PROGRAM STUDENT LEARNING OUTCOMES 6-Year Cycle Radiologic Science B.S.</b>	<b>2019 2020</b>	<b>2020 2021</b>	<b>2021 2022</b>	<b>2022 2023</b>	<b>2023 2024</b>	<b>2023 2024</b>
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 301 RDSC 410			RDSC 202 RDSC 205 RDSC 301 RDSC 410		
Demonstrate knowledge of x-ray physics and related math in the medical imaging setting.		RDSC 202 RDSC 410			RDSC 202 RDSC 410	
Demonstrate diverse perspective in the healthcare setting.			RDSC 205 RDSC 410			RDSC 205 RDSC 410
Demonstrate effective patient care skills.		RDSC 205 RDSC 410			RDSC 205 RDSC 410	
Demonstrate technical ability in the medical imaging setting.			RDSC 410			RDSC 410
Demonstrate radiation safety for self, staff, and patients as set forth by the ALARA standard.	RDSC 272 RDSC 410			RDSC 272 RDSC 410		

### Methods for Assessment

The RDSC PSLOs that were assessed for academic year 2019-20 were:

PSLO 1 – Communication effectively in the health care setting.

PSLO 4 – Demonstrate teamwork skills while conducting patient procedures.

PSLO 9 – Demonstrate radiation safety for self, staff, and patients as set forth by the ALARA standard.

The common assessment tools used for the capstone level for these PSLOs were the student exit survey which was administered spring term asking the students to rate their proficiency in the program student learning outcomes. We also administered a survey to the clinical instructors (CI) asking them to rate the student(s) proficiency in the same skill sets. The program has found that observation of students in the real-world setting by medical imaging professionals may have a degree of scoring variability; however, it provides valuable information regarding the student's ability to meet industry standards in our desired skill sets. Unfortunately, due to the constraints imposed by the COVID pandemic on healthcare facilities we were not able to collect the CI survey data for 2020. The RDSC program will reinitiate the survey spring term 2021.

For the practicing level of the PSLOs students present project and case studies in RDSC 202 and RDSC 211 and are observed communicating in the team settings in all of the identified RDSC courses.

**PSLO 1 – Communication effectively in the health care setting.**

Communication skill are assessed explicitly and implicitly throughout the RDSC program and are currently measured three times in the program using four different tools. Below you will find the courses and methods used to collect data.

- RDSC 202 – Radiographic Techniques II
  - Students present laboratory project summaries to lab students and answer questions.
- RDSC 205 – Patient Care
  - In simulation scenarios, students communicate as a small team with patients while being observed by the professor.
- RDSC 211 – Radiographic Positioning II
  - Students present image critiques to fellow students in the laboratory setting.
- RDSC 410 – Clinical Externship
  - Externship students participate in an exit survey prior to graduating where they rate their communication skills in the healthcare setting.

**RDSC 202 Project Summary Presentation**

Assessment method	Score > 20/25 points	Score < 20 points	Minimal acceptable performance
Assignment	100% (n=43)	0%	80% at or above pass

**RDSC 205**

Assessment method	Measurement scale 75% or greater	Minimal acceptable performance	Pass	No Pass
Observation	Pass/No Pass	80% at Pass	100%	0%

**CI Survey Results**

As explained above this tool was not used for the 2019-20 Academic Year. We did reflect on the student evaluations that are performed periodically through the year and found that 100% demonstration proficient or higher on these evaluations.

**Student Survey Results**

Please rate your proficiency in the following areas. (n=44)

Question	High proficiency	Proficiency	Some proficiency	Limited proficiency
Communication effectively in the health care setting.	73% n=32	25% n=11	2% n=1	0%

## Results

With the standards of 80% of student rating proficient or above, students met or exceeded faculty expectations in this PSLO.

## Analysis

RDSC faculty reviewed the data and determined this PSLO is being addressed appropriately at this point.

## Action Plan

No further action is needed for this PSLO at this point.

## PSLO 4 – Demonstrate teamwork skills while conducting patient procedures.

Like ethical reasoning, teamwork is taught implicitly throughout the RDSC program and is measured the first time in RDSC 205 followed by RDSC 410 surveys.

- RDSC 205 – Patient Care
  - All sophomore students (n=49) were assessed in this PSLO with an assignment regarding geriatric patients. The assignment was scored using the Oregon Tech Diversity rubric (Appendix D).
- 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 205 Assignment

Assessment method	Measurement scale	Minimal acceptable performance	High Proficiency in 4 categories & Proficiency in 1 category	High Proficiency in all 5 categories
Rubric scored lab project	1 – 4 proficiency	80% at 3 or 4	4.35% (n=3)	93.9% (n=46)

## CI Survey Results

This assessment tool was not used for this assessment cycle for the reason stated above.

## Student Survey Results

Please rate your proficiency in the following areas. (n=44)

Question	High proficiency	Proficiency	Some proficiency	Limited proficiency
Demonstrate teamwork skills while conducting patient procedures.	73% n=32	27% n=12	0%	0%

## Results

With the standards of 80% of student rating proficient or above, students met or exceeded faculty expectations in this PSLO.

## Analysis

Upon reviewing these results and student exit survey, the faculty believe that there is no evidence for taking corrective steps at this time.

## Action Plan

No action plan is needed at this time.

## PSLO 9 – Demonstrate radiation safety for self, staff, and patients as set forth by the ALARA standard.

The principle of practicing radiation protection by applying ALARA (As Low As Reasonably Achievable) is explicitly taught throughout the RDSC program and implicitly practiced in all laboratory and clinical experiences. The on-campus measure used to assess this PSLO is for students to pass RDSC 272 – Radiation Protection with a minimum score of 75%.

- RDSC 410 – Clinical Externship
  - Students are observed by medical imaging professionals in a health care facility for a total of 11 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 272 Radiation Protection

Assessment method	Measurement scale	Minimal acceptable performance	Pass	No Pass
Pass the course with minimum score of 75%	Pass/No Pass	80% Students Pass	98% (n=48)	2%% (n=1)

## CI Survey results

This assessment tool was not used for this assessment cycle for the reason stated above.

## Student Results

Please rate your proficiency in the following areas. (n=44)

Question	High proficiency	Proficiency	Some proficiency	Limited proficiency
Demonstrate radiation safety for self, staff, and patients as set forth by the ALARA standard.	84.0% n=37	14% n=6	2% n=1	0%

## Results

With the standards of 80% of student rating proficient or above, students met or exceeded faculty expectations in this PSLO.

## Analysis

Upon reviewing these results and student exit survey, the faculty believe that there is no evidence for taking corrective steps at this time.

## Action Plan

No action plan is needed at this time.

## **Analysis of Program Laboratory Equipment**

The life expectancy of radiology equipment is five to seven years. In the 2018-19 academic year, the laboratory equipment was 12-year-old refurbished machines. The strategic equipment sustainability plan that was drafted in 2015 was not followed by administration leading to a few rooms not being operational for the year and the others working intermittently. The situation had a negative impact on the students' learning experience. When the negative impact was shared with the administration and Board of Trustees, it was decided to replace eight of the exposure rooms with new state of the art Digital Radiology (DR) rooms including a hybrid room, two trauma bays, plus a simulation hybrid room, and a portable DR x-ray machine by fall term 2019. This \$1.8 million project was completed last summer.

The reconfiguration of the laboratory space has led to increased adaptability to accommodate a wider variety of lab projects. The hybrid imaging equipment will greatly enhance the learning experience for students, as they will now be forced to "think outside of the box" when positioning patients for radiographic procedures. With the new portable machine, students can now capture real time images in the cadaver dissection lab.

The new radiology laboratory configuration and equipment will greatly enhance Oregon Tech RDSC students' learning experience. It has also enabled the program to increase cohort size. The program director will encourage administration to follow the program strategic equipment sustainability plan in the future to avoid last year's situation in the future.

## **Evidence of Improvement in Student Learning.**

One of the RDSC program goals is for Oregon Tech RDSC students to meet or exceeded other U.S. programs on the specific elements of the national registry exam. We have met that goal since 2017.

## **Action Plans: Changes Resulting from Assessment**

The RDSC faculty have reviewed the program curriculum map in an effort to better accommodate the student learning needs. Two adjustments were made based on the following finds:

1. We identified that the sophomore fall term (first term of the program) that the courses were physics heavy and that there were not any patient focused courses which lead to students getting discouraged, even to the point that has impacted student retention.
2. At the same time the junior fall term was a heavy load of programmatic courses with the winter term being light.

Plan of action is to move RDSC 205 – Patient Care to the sophomore fall term and RDSC 320 – Surgery and Trauma Radiography to the junior year winter term with three desired outcomes:

1. Sophomores will remain motivated with getting hands on patient care skills being learned earlier in the curriculum.
2. To lighten the junior year fall term.
3. By moving RDSC 320 to winter term, the juniors will be able to better focus on the course and be able to gain to complete the positioning courses for a better learning experience in the surgery/trauma course.

The RDSC program will implement this change for the 2020-21 Academic Year.

Appendix A

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
C	(P)	Competency	Performance is at expected skill level
D	(P)	Developing/Digressing	Performance requires modification
F	(F)	Failing	Performance fails expectation for skill level

		E	C	D	F
<b>1)</b>	<b>Organizational Skills</b>				
	<u>Prioritizes lab activities</u> <u>Shows an efficient and methodical approach while working</u> <u>Performs procedures in sequential steps</u> <u>Develops and follows a process that works for him/her</u>	<b>Comments:</b>			
<b>2)</b>	<b>Quantity of lecture &amp; lab work</b>				
	<u>Completes expected amount of work</u> <u>Contributes equally in lab projects</u> <u>Utilizes lab time efficiently</u>	<b>Comments:</b>			
<b>3)</b>	<b>Quality of lab work</b>				
	<u>Continuously shows improvement of work</u> <u>Achieves mastery of skills at performance level</u>	<b>Comments:</b>  <b>Current Grade _____</b>			
<b>4)</b>	<b>Comprehension of lab procedures</b>				
	<u>Understands lab objectives</u> <u>Applies logic/methodology to completion of lab activities</u> <u>Asks for help when needed</u>	<b>Comments:</b>			
<b>5)</b>	<b>Performance under pressure</b>				
	<u>Maintains composure in a stressful environment</u> <u>Manages accurate performance with increased stress</u> <u>Performs well in a continuously changing environment</u>	<b>Comments:</b>			
<b>6)</b>	<b>Judgment and critical thinking</b>				
	<u>Assesses situation before taking action</u> <u>Anticipates potential problems</u> <u>Applies knowledge and uses judgment when problem solving</u>	<b>Comments:</b>			
<b>7)</b>	<b>Perseverance</b>				
	<u>Shows an interest in learning despite setbacks</u> <u>Continuous effort to complete all task and improve work</u>	<b>Comments:</b>			
<b>8)</b>	<b>Self confidence</b>				
	<u>Develops confidence in abilities</u> <u>Performs collaboratively and independently</u> <u>Demonstrates self-reliance</u>	<b>Comments:</b>			

		E	C	D	F
<b>9)</b>	<b>Attention to detail and instructions</b>				
	<u>Demonstrates attention to details</u> <u>Demonstrates ability to retain and follow written instructions</u> <u>Demonstrates ability to retain and follow verbal instructions</u>	<b>Comments:</b>			
<b>10)</b>	<b>Initiative</b>				
	<u>Shows interest in participating without being told</u> <u>Actively seeks learning opportunities</u>	<b>Comments:</b>			
<b>11)</b>	<b>Attitude toward assigned tasks</b>				
	<u>Accepts all tasks and assignments with a positive attitude</u> <u>Engages in all assigned lab exercises and activities</u>	<b>Comments:</b>			
<b>12)</b>	<b>Attitude towards criticism</b>				
	<u>Accepts advice without negative comments or behavior</u> <u>Engages in respectful dialogue to better understand instruction</u> <u>Embraces criticism positively with a desire to improve</u>	<b>Comments:</b>			
<b>13)</b>	<b>Punctuality &amp; attendance</b>				
	<u>Always in attendance</u> <u>Arrives on time</u> <u>Is ready to begin work</u>	<b>Comments:</b>			
<b>14)</b>	<b>Appearance</b>				
	<u>Follows department dress code policy</u> <u>Hygienic and neat in appearance</u> <u>Appearance is appropriate for clinical workplace setting</u>	<b>Comments:</b>			
<b>15)</b>	<b>Interpersonal relationship with peers/faculty</b>				
	<u>Interaction with peers is respectful, supportive and kind</u> <u>Interacts appropriately and respectfully with faculty</u> <u>Verbal communication skills</u> <u>Written Communication skills</u>	<b>Comments:</b>			
<b>16)</b>	<b>Teamwork</b>				
	<u>Works well in a group situation and contributes equally</u> <u>Communicates effectively with peers and faculty</u> <u>Resolves conflict</u> <u>Works collaboratively to accomplish objectives</u>	<b>Comments:</b>			
<b>17)</b>	<b>Knowledge of lab/classroom policies and procedures</b>				
	<u>Observes all lab/classroom requirements</u> <u>Adheres to all rules as stated in the course syllabi</u> <u>In compliance with MIT student handbook policies</u>	<b>Comments:</b>			

List three strengths:

List three areas of focus:

Student signature: \_\_\_\_\_

Faculty signature: \_\_\_\_\_

The information on this evaluation has been reviewed and:

I concur \_\_\_\_\_ I do not concur \_\_\_\_\_ Comments: