I. Introduction

The Radiologic Science (RDSC) program at Oregon Institute of Technology is entering its 63 year of educating future Radiologic Technologists. The program is proud of its strong retention rates from the sophomore (professional courses) to the senior year (externship). Because of limited space and teacher ratio, the radiology program limits the selection numbers to 48 students into the sophomore professional level each year. The program generally graduates between 42-48 students a year with 40 students graduating in 2015. The average salaries of those reporting for the 2014 graduating class was $53,482.

Summary of Program Purpose, Objectives and Student Learning Outcomes

The RDSC faculty established the program purpose, objectives, and student learning outcomes in 2007 and reviewed them in 2011 and 2015. The faculty revisited them fall 2015 to modify the assessment cycle to align with the new Essential Student Learning Outcomes (ESLO). While the University ESLOs have been modified the RDSC faculty feel that the current PSLOs can be modified to match the institutional measures. The program assessment cycle has been modified to accommodate the University cycle. After discussion, the RDSC faculty divided the ESLO six year cycle into two, three year cycles. It is believed that this will develop habits that will result in a natural assessment process. It is also the goal of the program faculty to embed all of the assessment tools into courses for a couple of reasons:

1. Each faculty will have access to data every year in the event they feel there may be an anomaly event.
2. Assessment will be regularly practiced, thus reducing the impact on faculty and students each year when assessing the institutional ESLOs.

Program Purpose

The purpose of the Radiologic Science Bachelor's 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 imaging professions.

Educational Objectives

The Radiologic Science program prepares graduates to:

- Be advanced leaders in the profession.
- 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.

Expected Student Learning Outcomes
The Radiologic Science student will:

1. Utilize both written and oral communication effectively.
2. Demonstrate effective critical thinking and problem solving skills.
3. Demonstrate professional conduct and ethical decision making.
4. Demonstrate teamwork while conducting patient procedures.
5. Demonstrate knowledge of x-ray physics and related math.
6. Diverse Perspective. We need to expand the descriptor for this PSLO, perhaps, “Diverse perspective in the health care setting.”
7. Demonstrate effective patient care skills.
8. Recognize quality diagnostic images for both technical and anatomical criteria and have the technical ability to correctly repeat images when the quality is not adequate for diagnostics. Faculty may modify this PSLO this year to better serve our programmatic assessment.
9. Demonstrate radiation safety for self, staff, and patients as set forth by the ALARA standards.

Additional Student Learning Opportunities
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. The Radiologic Science student club participates in a joint venture with the Federal Fish and Wildlife Services of Klamath Falls, to identify fish species through digital imaging of the fish. In addition the junior imaging students have joined forces with the natural science department to image and record complete anatomical structures of 3 cadavers.
**III. Three-Year Cycle for Assessment of Student Learning Outcomes**

The current cycle of assessment is shown in Table 1.

| Radiologic Science Outcome Assessment | 2015
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<td><strong>ESLO #1 Communication</strong></td>
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<td>PSLO #1 Utilize both written and oral communication effectively</td>
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<td><strong>ESLO #2 Inquiry &amp; Analysis</strong></td>
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<td>PSLO #2 Demonstrate effective critical thinking and problem solving skills</td>
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<td><strong>ESLO #3 Ethical Reasoning</strong></td>
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<td>PSLO #3 Demonstrate professional conduct and ethical decision making.</td>
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<td>PSLO #4 Demonstrate teamwork while conducting patient procedures.</td>
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<td><strong>ESLO #5 Quantitative Literacy</strong></td>
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<td>PSLO #5 Demonstrate knowledge of x-ray physics and related math.</td>
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<td><strong>ESLO #6 Diverse Perspective</strong></td>
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<td>PSLO #6 Diverse Perspective <em>We need to expand the descriptor for this PSLO.</em></td>
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<td>PSLO #7 Demonstrate effective patient care skills</td>
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<td>PSLO #8 Recognize quality diagnostic images for both technical and anatomical criteria and have the technical ability to correctly repeat images when the quality is not adequate for diagnostics. <em>May be modified.</em></td>
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<td>PSLO #9 Demonstrate radiation safety for self, staff, and patients as set forth by the ALARA standard.</td>
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P = Program Assessment Cycle  
I = Institutional Assessment Cycle

**IV. Summary of 2014-15 Assessment Activities**

The program faculty formally assessed three student learning outcomes this year, as follows.
PSLO #3 Demonstrate professional conduct and ethical decision making. This PSLO aligns with ESLO #3 Ethical Reasoning.

Direct assessment #1

Direct Assessment #2

Direct Assessment #3

Indirect Assessment #1

PSLO #6 Diverse Perspective. We need to expand the descriptor for this PSLO. This PSLO aligns with ESLO #6 Diverse Perspective.

Direct assessment #1

Direct Assessment #2

Direct Assessment #3

Indirect assessment #1

PSLO #8 Recognize quality diagnostic images for both technical and anatomical criteria and have the technical ability to correctly repeat images when the quality is not adequate for diagnostics. May be modified.

Direct Assessment #1

Direct Assessment #2

Direct Assessment #3

Direct Assessment #3
V. Summary of Student Learning Outcomes

The program faculty met in June 2016 to review the assessment work for the year and drew the following conclusions.

**PSLO #3** Demonstrate professional conduct and ethical decision making.

Strengths:

Weaknesses:

Actions:

**PSLO #6** Diverse Perspective.

Strengths:

Weaknesses:

Actions:

**PSLO #8** Recognize quality diagnostic images for both technical and anatomical criteria and have the technical ability to correctly repeat images when the quality is not adequate for diagnostics.

Strengths:

Weaknesses:

Actions:
PSLO #3 Demonstrate professional conduct and ethical decision making.

Courses that are shaded below indicate that the SLO above is taught in the course, students demonstrate skills or knowledge in the SLO, and students receive feedback on their performance on the SLO.

F = Foundational  
P = Practice  
C = Capstone
Appendix A-2
Radiologic Science
SLO-Curriculum Map

PSLO #6 Diverse Perspective.

Courses that are shaded below indicate that the SLO above is taught in the course, students demonstrate skills or knowledge in the SLO, and students receive feedback on their performance on the SLO.

F = Foundational
P = Practice
C = Capstone
PSLO #8 Recognize quality diagnostic images for both technical and anatomical criteria and have the technical ability to correctly repeat images when the quality is not adequate for diagnostics.

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