



## Radiologic Sciences [RADS]

**Cycles included in this report:**

Jun 1, 2019 to May 31, 2020

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## **Program Name: Radiologic Sciences [RADS]**

**Reporting Cycle: Jun 1, 2019 to May 31, 2020**

### **1 Is this program offered via Distance Learning?**

100% Traditional or less than 50% Distance/Traditional

### **2 Is this program offered at an off-site location?**

No

### **2.1 If yes to previous, provide addresses for each location where 50% or more of program credits may be earned.**

### **3 Example of Program Improvement**

2016-2017:

During the 2016 assessment year, many of the assessment tools and benchmarks were changed, because the benchmarks continued to be met. The RADS Program formulated an "Assessment Committee", see assessment committee policy below from the RADS program Policy and Procedure manual. This committee recommended increased benchmarks for most of the SLO's or a new instruments for assessment.

Assessment Committee Policy:

The program reviews the assessment plan on an annual basis, the program plans for this to be done every March. The program also incorporates input from its communities of interests at regularly scheduled meetings of the Radiologic Sciences Faculty/Advisory Committee. The Radiologic Sciences Faculty/Advisory committee also serves as the Assessment Committee. A subcommittee of the Assessment Committee is comprised of the McNeese State University radiologic Sciences faculty. This subcommittee of the Assessment Committee prepares review items of the assessment plan to present to the entire Assessment Committee.

The subcommittee of the Assessment Committee prepares a comprehensive evaluation plan for the RADS program at McNeese State University and assess the assessment plan and its outcomes in relation to the program's mission statement and goals and SLO/s. The items incorporated in the assessment plan are outlined in the plan itself, which is maintained in binders within the program director's office. Actual blank assessment plans and completed plans for previous years are maintained on the program director's computer. The program reviews the assessment tools stated in the plan and determines if the benchmarks were achieved. As part of the assessment plan, the program solicits and receives feedback from communities of interest including students, faculty, radiologists, graduates, and employers of graduates through the assessment tools outlined in the plan. The assessment committee will analyze feedback from communities of interest and utilizes outcome data for continuous program improvement and evaluate the plan according to the document entitled "Annual Review of the Assessment Plan Checklist".

The assessment plan summative reports found in the binders also include how the information from the assessment plan is implemented into program policy and decision making for program improvement. Actual documentation of instituted policy and programmatic changes can be found in the faculty/advisory committee minutes.

See actual plan in binders for assessment tools, see administrative calendar for planning when actual items are completed.

Cross reference: Outcome Assessment Policy

2017-2018:

The RADS program has struggled with a low completion rate and has adjusted the benchmark up and down over the past years. After three years of not meeting the benchmark for completers of the program, in 2011 the RADS advisory committee lowered the completion rate to 70%. From 2012 to 2016, the 70% benchmark was met every year but one. Then in 2017, the benchmark was not met again, then the RADS advisory committee decided to coordinate test dates for all the RADS

courses so that none are on the same day, to increase retention of students in the program. In 2018 the completion rate benchmark was met. See attached data.

2018-2019:

The RADS program has a goal to foster critical thinking skills enabling effective problem-solving in the professional environment. One of the outcomes/objectives for this goal is "*Students produce radiographic images demonstrating proper selection of exposure and technical factors*". One of the assessment tools used to evaluate this item is embedded test questions in RADS 461, the desired benchmark is 80 % of the student will answer each embedded question correctly. This is the third year the assessment tool was used, in 2016 - 85% of the students in the cohort answered the questions correctly. In 2017 - the benchmark was not met with only 75.3 % of the students answering the questions correctly. As a result of not meeting the benchmark, a voice overlay power point presentation was developed regarding radiographic exposure and selection of technical factors and assigned as extra responsibility of the student during the Spring 2018. In 2018 the benchmark was still not met, however, the score did increase to 78.4% of the student answering the embedded questions correctly. While the benchmark was not met for a second straight year, there was an increase in the positive direction.

2019-2020:

The RADS program has one of its objectives/outcomes that students be able to apply the principles of radiation protection for the patient, self, and others. The tool used to assess the accomplishment of this outcome is the Performance Evaluation (Form f-9), section III, A-D completed during RADS 356. The benchmark is an average score of 3 with a possibility of 4 points from the sample selected. In 2019, the results for section III A-D on Form F-9 was a perfect score of 4 points, up from 2018.

#### 4 Program Highlights from the Reporting Year

2017-2018:

- Three faculty members and 22 students attended the Louisiana Society of Radiologic Technologists Annual Meeting, in July of 2017, in New Orleans.
- One faculty member received a \$5000 EP Grant for enhancement of accreditation standards, funding three faculty members to go to a national meeting in March of 2018. The meeting was a one-day workshop sponsored by the Joint Review Committee on Education in Radiologic Technology (JRCERT) for reviewing the standards for an accredited program from the site visitor (two faculty members attending) and one for site visit team chairmen (one faculty member attending). The second and third day of the meeting was a national meeting for Radiologic Sciences Educators with a variety of lectures and networking events.
- One student attended a mid-winter seminar sponsored by the Louisiana Society of Radiologic Technologists in March of 2018 in Alexandria.

2018-2019:

- Four RADS faculty members and 21 RADS students attended the 61st annual meeting of the Louisiana Society of Radiologic Technologists in Baton Rouge. While there two faculty members were elected to officer positions: Allison Puente 1st Vice President, and Sarah Jessup 2nd Vice president of the LSRT.
- Three RADS faculty members and 14 RADS students attended an international meeting in Chicago of the Radiologic Society of North America. This meeting had
  - 50,252 meeting attendees
  - 24,702 professional attendees
  - 115 countries represented
  - 76% of attendees come to RSNA to see new products and development
- Three RADS faculty members and 4 RADS students attended the Mid-Winter Seminar of the Louisiana Society of Radiologic Technologists
- Three RADS faculty members were appointed by the national accrediting agency for Radiologic Sciences as site visitors.
- Two RADS faculty members hold executive board appointments from the Louisiana Society of Radiologic Technologists: Greg Bradley - Director of Publications and Susie Beasley - Historian

2019-2020:

The RADS program had a community service project for Valentine's Day to give food from the heart. It was a campus-wide food drive and at the Clinical Education sites, and the event was very successful. Enough food was collected to share with 4 different community food banks in the Lake Charles area. All the program faculty and 22 students attend the Mid-Winter Seminar of the Louisiana Society of Radiologic Technologists (LSRT). Two students placed first and third place respectively in the 2019 LSRT Student Scientific Essay Competition.

## 5 Program Mission

The Bachelor of Science in Radiologic Sciences program prepares students for the health care profession as competent radiographers. In addition, the program prepares students for career opportunities in mammography, computed tomography, magnetic resonance imaging, bone densitometry, vascular intervention, quality management, and departmental management. The program integrates learning and clinical environments to promote advanced professional development.

The program goals are:

1. To provide an education that promotes clinical competency.
  - SLO - 1.1 Students will be able to demonstrate radiographic positioning skills accurately.
  - SLO - 1.2 Students will provide patient care and comfort to patients while performing radiographic procedures.
  - SLO - 1.3 Students will be able to apply the principles of radiation protection for the patient, self and others.
2. To foster critical thinking skills enabling effective problem solving in the professional environment.
  - SLO - 2.1 Students produce radiographic images demonstrating proper selection of exposure and technical factors.
  - SLO - 2.2 Students will evaluate finished radiographic images, for proper: anatomy visualized, positioning, and exposure factors.
3. Apply effective communication skills in the professional environment.
  - SLO - 3.1 Students will be able to communicate with their patients while implementing the radiography process.
  - SLO - 3.2 Students will be able to communicate effectively with clinical staff and peers.
4. To promote professionalism in radiologic sciences.
  - SLO - 4.1 The student will maintain appropriate conversation with and in the presence of patients.
  - SLO - 4.2 The student will demonstrate professional ethics while at the assigned Clinical Education Setting.

## 6 Institutional Mission Reference RADS program mission reference

The program mission aligns with the University mission to emphasize in-depth disciplinary knowledge and its application to academic and professional environments. Students achieve success through the studied acquisition of content knowledge, the demonstration of discipline-specific skills and dispositions as well as mastery of general education competencies such as critical thinking, effective communication, and independent learning.

## 7 Assessment and Benchmark SLO 1.2 - F-9 II A-E RADS 356, and RADS 220L Exam I Average

Assessment: Students will provide patient care and comfort to patients while performing radiographic procedures. RADS 220L examination I average grade.

Assessment Instruments:

1. RADS 356 F-9 II A-E
2. RADS 220L examination I average grade

Benchmark 1: An average score of 3 with a possible score of 4 for II A-E of Form F-9 for the sample selected.

Prior to 2016-2017, the benchmark was an average score of 2 (demonstrate acceptable with minor improvements) or higher on II B on F-10.

**Benchmark 2:** An average score of 85 (100 points possible) or higher on examination I for RADS 220L.

*Files:* See list of attachments to view. (Requires Adobe Reader or compatible viewer).

Completion Rates

#### Course Links

**RADS220L [Radiographic Procedures I Laboratory (Lab. 3, Cr. 1)]**

**RADS356 [Clinical Radiography III (Lab. 15, Cr. 3)]**

#### Outcome Links

##### **Patient Care [Program]**

Students will provide patient care and comfort to patients while performing radiographic procedures

### 7.1 Data SLO 1.2 RADS 356 F-9 II A-E

Academic Year	# of students	Patient Care F-9 average score for II A-E
2013-2014	-	3.00
2014-2015	-	2.99
2015-2016	-	3.00
2016-2017	-	3.934
2017-2018	-	3.93
2018-2019	24	3.97
2019-2020	21	3.94

#### Course Links

**RADS220L [Radiographic Procedures I Laboratory (Lab. 3, Cr. 1)]**

**RADS356 [Clinical Radiography III (Lab. 15, Cr. 3)]**

#### Outcome Links

##### **Radiographic Positioning [Program]**

Students will be able to demonstrate radiographic positioning skills accurately.

### 7.1.1 Analysis of Data and Plan for Continuous Improvement

2016-2017:

No immediate action necessary. Continue to trend, as currently demonstrating an upward increase in the score, from 87.35% in 2015 to 91.4% in 2017.

2017-2018:

Analysis for Benchmark 1: Will continue to trend, as this is third year (beginning in 2016) and typically trend for 4-5 years before changing.

2018-2019:

Analysis for this benchmark was the score on all items for 2018 is 3.97. It is up from a 3.93 average in 2017. The established benchmark was met. Will continue to trend, as this is third year (beginning in 2016) and typically trend for 4 – 5 years before changing.

2019-2020:

Analysis for this benchmark was the score on all time for 2019 is slightly down from 2018, will trend for one more year to make sure it is not trending downward.

#### Course Links

**RADS220L [Radiographic Procedures I Laboratory (Lab. 3, Cr. 1)]**

**RADS356 [Clinical Radiography III (Lab. 15, Cr. 3)]**

## 7.2 Data RADS 220L examination I

Academic Year	# of RADS 220L students	Average grade on examination I
2013-2014	-	86.54%
2014-2015	-	86.45%
2015-2016	-	87.35%
2016-2017	-	90.00%
2017-2018	23	91.40%
2018-2019	24	91.8%
2019-2020	24	90.2%

### Course Links

**RADS220L [Radiographic Procedures I Laboratory (Lab. 3, Cr. 1)]**

**RADS356 [Clinical Radiography III (Lab. 15, Cr. 3)]**

### 7.2.1 Analysis of Data and Plan for Continuous Improvement

2017-2018:

Analysis for Benchmark 2: The analysis demonstrates an upward trend of increasing gradually since 2015 when it was 87.35% and it is 91.8% in 2018. Will continue to use this instrument as one of two assessment tools to evaluate the Program SLO 1.2 "Student will provide patient care and comfort to patients while performing the radiographic procedures". The establishment benchmark is an average score of 85% or higher on examination 1 for RADS 220L. The established benchmark was met.

2018-2019:

Continue to trend, as currently demonstrating an increasing score from an 87.35% in 2015 to 91.8% in 2018.

2019-2020:

Continue to trend, it is currently demonstrating a slight score down from 91.8 to 90.7%.

### Course Links

**RADS220L [Radiographic Procedures I Laboratory (Lab. 3, Cr. 1)]**

**RADS356 [Clinical Radiography III (Lab. 15, Cr. 3)]**

## 8 Assessment and Benchmark SLO 1.1 - RADS 321L Final test, and F-10 II C RADS 461

Assessment: Students will be able to demonstrate radiographic positioning skills accurately.

Assessment Instruments:

1. RADS 321L Final examination (positioning portion only).
2. Performance Evaluation (Form F-10)—Item II C, completed during RADS 461 (random sampling of 3 per student)

Benchmark 1: An average score of 70 (100 points possible) or higher on the positioning portion of the final examination for RADS 321L.

Prior to 2017-2018, the benchmark was an average score of 80 (100 points possible) on the final examination.

***During the 2018-2019 academic the test format changed, to be out of 100 points***

Benchmark 2: An average score of 2 (demonstrate acceptable with minor improvements) or higher on II C of Form F-10 for the sample selected.

**Course Links****RADS321L [Radiographic Procedures III Laboratory (Lab. 3, Cr. 1)]****Outcome Links****Radiographic Positioning [Program]**

Students will be able to demonstrate radiographic positioning skills accurately.

**8.1 Data SLO 1.1 RADS 321 final exam (positioning portion only)**

Academic Year	Average grade on final examination
2013-2014	86.54%
2014-2015	87.35%
2015-2016	90.00%
2016-2017	91.40%

Academic Year	# of students	Average points on final examination
2017-2018	19	77.1/80
2018-2019	22	97/100
2019-2020	21	97/100

**Course Links****RADS321L [Radiographic Procedures III Laboratory (Lab. 3, Cr. 1)]****8.1.1 Analysis of Data and Plan for Continuous Improvement**

2016-2017:

No immediate action necessary. Still trending, as this is a new assessment tool which began in 2016.

2017-2018:

Benchmark was changed for 2018 to the average score of 70 (80 possible, which is a change from the 2017 year when it was an average score of 80 (100 points possible). This is the second year of using this assessment tool. The established benchmark was met for the second time, will continue to trend for a maximum of three more years. If the established benchmark continues to be met, will consider a new assessment tool or objective.

2018-2019:

This is the third year of using this assessment tool. The established benchmark was met for the third time, will continue to trend for a maximum of 2 more years. If the established benchmark continues being met, will consider a new assessment tool or objective.

2019-2020:

The program will continue to trend and monitor for one more year as this is the fourth year the benchmark has been met.

**Course Links****RADS321L [Radiographic Procedures III Laboratory (Lab. 3, Cr. 1)]****8.2 Data SLO 1.1 RADS 461 F-10 IIC**

Academic Year	# of students	Average score for F-10 IIC RADS 461
2013-2014	-	2.71
2014-2015	-	2.71

2015-2016	-	2.71
2016-2017	-	2.38
2017-2018	-	2.88
2018-2019	19	2.67
2019-2020	22	2.55

### Course Links

#### RADS461 [Clinical Radiography V (Lab. 25, Cr. 5)]

##### 8.2.1 Analysis of Data and Plan for Continuous Improvement

2016-2017:

No immediate action necessary; still trending, as this is a new assessment tool which began in 2016.

2017-2018:

For the sample selected the average score on all items for 2018 is 3.99. It is up from a 3.95 in 2017. The benchmark was met. Still trending, as this is the second year of using this assessment tool which began in 2016, and there has been an increase both years.

2018-2019:

The established benchmark was met. The average score on this item for 2018 was 2.67. This is down from 2.88 in 2017. Will continue to monitor, as this benchmark was met for the third year, see an up and down from 2016 to 2018.

2019-2020:

The program will continue to monitor, as this benchmark was met for the fourth year, and the results have went up and down since the program has been assessing this since 2016 using the RADS 461 Form F-10, item II C, and a random sample of three. This is the lowest score since it has been monitor. Will need to trend to make sure it is not going in a downward direction.

#### 9 Assessment and Benchmark SLO 1.3 RADS 349 Test 2, and RADS 356 F-9 III A-D

Assessment: Students will be able to apply the principles of radiation protection for the patient, self, and others.

Assessment Instruments:

1. RADS 349 Test 2 average grade
2. RADS 356 F-9, section III A-E

Benchmark 1: An average score of 85 (100 points possible) or higher on Test 2 for RADS 349.

Prior to 2016-2017, the benchmark was an average score of 85 on the final examination for RADS 349.

Benchmark 2: An average score of 3 with a possible score of 4 for III A-D of Form F-9 for the sample selected from RADS 356.

Prior to 2016-2017, the benchmark was an average score of 2 (demonstrates acceptable with minor improvements) or higher on II-D of F-10 from the sample selected.

### Course Links

RADS349 [Radiation Protection and Biology (Lec. 3, Cr. 3)]

RADS356 [Clinical Radiography III (Lab. 15, Cr. 3)]

### Outcome Links

Radiation Protection [Program]



Students will be able to apply the principles of radiation protection for the patient, self and others

### 9.1 Data RADS 349 Test 2

Academic Year	# of students	RADS 349 Test 2 average grade
2013-2014	-	84.90%
2014-2015	-	83.16%
2015-2016	-	85.26%
2016-2017	-	88.78%
2017-2018	-	86.43%
2018-2019	24	76.26%
2019-2020	24	79.75%

#### Course Links

**RADS349 [Radiation Protection and Biology (Lec. 3, Cr. 3)]**

#### 9.1.1 Analysis of Data and Plan for Continuous Improvement

2016-2017:

The assessment tool was changed from the previous years, and the benchmark was still met. This is so encouraging to establish the fact that regardless of the tool the benchmark was still met. The average of test II for this cohort of students was 88.78. There is a small increase from 2016 which was 88.33. The established benchmark was met.

2017-2018:

For Benchmark 1: Will continue to closely monitor, as this is the first year the score has decreased from the previous year since the change to test 2 rather than the final examination.

2018-2019:

The average of test 2 for this cohort of students was 76.26. There is a decrease of almost 10% points from 2018 which was 86.43. The established benchmark was not met. Will continue to closely monitor, as this is the third consecutive year the score has decreased, however the first year the benchmark has not been met. Also, of the 24 students who were in this cohort of students two were unsuccessful in passing this course and were not able to progress to future RADS courses without repeating this course.

2019-2020:

The program is seeing an increase with this cohort of students over last year's cohort. The actual increase is 4%; however, it is still 5% short of reaching the established benchmark. The program will continue to monitor this outcome in the positive direction

#### Course Links

**RADS349 [Radiation Protection and Biology (Lec. 3, Cr. 3)]**

### 9.2 Data RADS 356 F-9 III A-D

Academic Year	# of students	F-9 III A-D, RADS 356 average score
2013-2014	-	2.93
2014-2015	-	2.91
2015-2016	-	3.00
2016-2017	-	3.95
2017-2018	-	3.99
2018-2019	22	4.0

2019-2020	21	4.0
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### Course Links

#### RADS356 [Clinical Radiography III (Lab. 15, Cr. 3)]

#### 9.2.1 Analysis of Data and Plan for Continuous Improvement

2017-2018:

For Benchmark 2: For the sample selected the average score on all items for 2018 is 3.99. It is up from a 3.95 in 2017. The benchmark was met. Still trending, as this is the second year of using this assessment tool which began in 2016, and there has been an increase both years.

2018-2019:

For the sample selected the average score on all items for 2019 is 4. It is up from a 3.99 in 2018. The benchmark was met. Still trending, as this is third year of using this assessment tool which began in 2016, and there has been an increase both years.

2019-2020:

For the sample selected the average score on all items for 2020 is 4. It is exactly the same as it was in 2019. The benchmark was met. Still trending, as this is the fourth year of using this assessment tool which began in 2016, and it appears to be plateauing.

### Course Links

#### RADS356 [Clinical Radiography III (Lab. 15, Cr. 3)]

#### 10 Assessment and Benchmark SLO 2.1 RADS 461, and SLO 2.2 RADS 320 L (image analysis)

SLO 2.1:

Assessment: Students produce radiographic images demonstrating the proper selection of exposure and technical factors.

Assessment Instrument: Embedded Question on RADS 461 unit test, questions 29, 43, 44, 45, 46 and 48.

Benchmark: 80% of the students will answer each embedded question correctly.

SLO 2.2:

Assessment: Students will evaluate finished radiographic images, for proper: anatomy visualized, positioning, and exposure factors.

Assessment Instrument: RADS 320L Test 3, Image Analysis section.

Benchmark: 75% of the students will pass the image analysis section of the test.

### Course Links

#### RADS320L [Radiographic Procedures II Laboratory (Lab. 3, Cr. 1)]

#### RADS461 [Clinical Radiography V (Lab. 25, Cr. 5)]

### Outcome Links

#### Patient Communication [Program]

Student will be able to communicate with their patients while implementing the radiography process

#### 10.1 Data SLO 2.1 RADS 461 and SLO 2.2 RADS 320L test 3

Academic Year	Students answering embedded questions correctly RADS 461 (SLO 2.1)		Students passing the image analysis section RADS 320L (SLO 2.2)	
	#	%	#	%
2016-2017	—	85.08%	—	80%

2017-2018	—	75.30%	—	74%
2018-2019	19	78.4%	22	72.7%
2019-2020	21	77.63%	21	59.7%

### Course Links

**RADS320L [Radiographic Procedures II Laboratory (Lab. 3, Cr. 1)]**

**RADS461 [Clinical Radiography V (Lab. 25, Cr. 5)]**

#### 10.1.1 Analysis of Data and Plan for Continuous Improvement

2016-2017:

SLO 2.1: The assessment tool was changed from the previous years, and the benchmark was still met.

SLO 2.2: The assessment tool was changed from the previous years, and the benchmark was still met.

2017-2018:

SLO 2.1: Will also develop an exposure and image acquisition power point presentation and make it available to the junior and senior students during the spring semester 2018. The new powerpoint presentation is attached.

SLO 2.2: Even though the benchmark was not met, will continue to trend as this is the second year for using this particular tool, and the previous year's results were so much better.

2018-2019:

SLO 2.1: The desired benchmark not met. The results are 78.4% of the students in this cohort answered the embedded question correctly. This is an increase from 75.3% in 2017, yielding an increase of 3%. Individually it is questions 44, 45, and 46 that were not met. In 2017 the benchmark was not met either and a power point presentation was developed and presented in Spring 2018. Since there was an increase and moving closer to the benchmark, will continue to trend for two more years.

SLO: 2.2: The established benchmark was not met for the second straight year. The results are that 72.7% of this cohort of students passed the image analysis section of the test. The program will continue to trend as this is the third year for using this particular tool, and the first year was so much better. If the third straight year is still not met, will develop some type of class exercised to emphasize image analysis.

2019-2020:

The desired benchmark wasn't met. The result is 77.63% of the students in this cohort answered the embedded question correctly. This is a decrease from 78.4 in 2018. Individually it is two of the six embedded questions that were not meet. In 2017 and 2018 the benchmark was not met either year. There was a PowerPoint presentation developed and presented in Spring 2018 and there was a 3% increase from 2017 to 2018, however, still not meeting the benchmark. The program will need to plan what to do to improve this area. Even on the second part of assessing this objective of evaluating finished radiographic image for proper anatomy, visualized, positioning, and exposure factors. The program is in the process of developing an exercise or product analysis to emphasize image analysis.

*Files: See list of attachments to view. (Requires Adobe Reader or compatible viewer).*

2018 Exposure Image Acquisition pptx (1) (2)

### Course Links

**RADS320L [Radiographic Procedures II Laboratory (Lab. 3, Cr. 1)]**

**RADS461 [Clinical Radiography V (Lab. 25, Cr. 5)]**

**SLO 3.1:**

Assessment: Students will be able to communicate with their patients while implementing the radiography process.

## Assessment Instruments:

1. RADS 321L Test 2, Procedure section.
2. RADS 355 F-26, item 6

Benchmark 1: 75% of the students will pass the procedure section of the RADS 321 L test 2.

Benchmark 2: 85% of students will receive a score of 8 (10 points possible) or higher on item 6 of Form F-26 final CI evaluation RADS 355.

**SLO 3.2:**

Assessment: Students will be able to communicate effectively with clinical staff and peers.

## Assessment Instruments:

1. RADS 3356 F-9 Item V-E.
2. RADS 461 F-26, item 6

Benchmark 1: The average score of 3 (4 points possible) or higher on V- E, of Form F-9 for the sample selected.

Benchmark 2: 90% of students will receive a score of 9 (10 points possible) or higher on item 6 of Form F-26 final CI evaluation RADS 461.

**Course Links**

**RADS321L [Radiographic Procedures III Laboratory (Lab. 3, Cr. 1)]**

**RADS355 [Clinical Radiography II (Lab. 15, Cr. 3)]**

**RADS356 [Clinical Radiography III (Lab. 15, Cr. 3)]**

**RADS461 [Clinical Radiography V (Lab. 25, Cr. 5)]**

**Outcome Links****Radiographic Positioning [Program]**

Students will be able to demonstrate radiographic positioning skills accurately.

**11.1 Data** SLO 3.1 RADS 321L and 355, and SLO 3.2 RADS 356 and 461

Academic Year	Students passing the procedure section, test 2 RADS 321L (SLO 3.1)		Students receiving 8/10 for item 6, F-26 RADS 355 (SLO 3.1)		Student average 3/4 on item V-E, F-9 RADS 356 (SLO 3.2)		Students receiving 9/10 on item 6, F-26 RADS 461 (SLO 3.2)	
	#	%	#	%	#	%	#	%
2015-2016	—	91.9%	—	100%	—	3.97	—	N/A
2016-2017	—	88.5%	—	100%	—	3.98	—	100%
2017-2018	—	74%	—	100%	—	4.00	—	100%
2018-2019	22	77%	22	100%	22	4.0	19	100%
2019-2020	21	78%	21	100%	21	4.0	22	100%

**Course Links**

**RADS321L [Radiographic Procedures III Laboratory (Lab. 3, Cr. 1)]**

**RADS355 [Clinical Radiography II (Lab. 15, Cr. 3)]**

**RADS356 [Clinical Radiography III (Lab. 15, Cr. 3)]**

**RADS461 [Clinical Radiography V (Lab. 25, Cr. 5)]****11.1.1 Analysis of Data and Plan for Continuous Improvement**

2016-2017:

SLO 3.1: The assessment tool was changed from the previous years, and the benchmark was still met.

SLO 3.2: The benchmark was met; however, a new assessment tool was determined as the assignment changed for this course and benchmark

2017-2018:

SLO 3.1: It was decided to continue the trend and watch it for a couple more years, the results are close to the benchmark. Also, this is only one of two tools used to evaluate the SLO 3.1 "Students will be able to apply to communicate with their patients while implementing the radiography process", and the other benchmark is being met.

SLO 3.2: This is the first year this particular tool was used to evaluate this objective. Will continue to trend for five years.

2018-2019:

SLO 3.1: The established benchmark was met. 77% of the students passed the procedure (communication) portion of the RADS 321L test 2 examination. This is up from 2018 when the average score was 74% and the benchmark of 75% was not met. It was decided to continue the trend and watch it for a couple more years, even though both benchmarks were met for SLO 3.1. The decision to continue the trend and watch it for a another year at least, was because last year was the first year the benchmark was not met for the RADS 321L test 2 tool.

SLO 3.2:

The established benchmark for both assessment tools was met. This is the fifth year of a five year trending cycle, as was decided in 2013 for the RADS 356 tool of SLO 3.2. *The RADS Advisory Committee will decide on another assessment tool for the future at the September 2019 meeting.* For the second assessment tool the established benchmark was met. Will continue to monitor, as this is the third straight year of reaching the benchmark for the second tool of 3.2 using the assessment tool which began in 2016.

2019-2020:

The established benchmarks for all assessments were met. This is the first year of the new benchmarks decided in 2018.

**Course Links**

**RADS321L [Radiographic Procedures III Laboratory (Lab. 3, Cr. 1)]**

**RADS355 [Clinical Radiography II (Lab. 15, Cr. 3)]**

**RADS356 [Clinical Radiography III (Lab. 15, Cr. 3)]**

**RADS461 [Clinical Radiography V (Lab. 25, Cr. 5)]**

**12 Assessment and Benchmark SLO 4.1 - RADS 356, and SLO 4.2 RADS 461**

SLO 4.1:

Assessment: The student will maintain appropriate conversation with and in the presence of patients

Assessment Instrument: Performance Evaluation (Form F-9) - Item V-A, completed during RADS 356 (random sampling of 3 per student).

Benchmark: 85% of students will score 4 points out of 4 points possible on item V-A, of Form F-9 for the sample selected.

SLO 4.2:

**Assessment:** The student will demonstrate professional ethics while at the assigned Clinical Education Setting.

**Assessment Instrument:** Clinical Instructor Evaluation of the Student (Form F-26) item 10 for the final CI Evaluation for RADS 461.

**Benchmark:** 85% of students will receive a score of 10 out of 10 points possible on item 10 of Form F-26 final CI evaluation RADS 461.

Prior to 2016 -2017, the benchmark was 85% of students receiving a 9 out of 10.

**Course Links**

**RADS356 [Clinical Radiography III (Lab. 15, Cr. 3)]**

**RADS461 [Clinical Radiography V (Lab. 25, Cr. 5)]**

**Outcome Links**

**Image Evaluation [Program]**

Students will evaluate finished radiographic images, for proper: anatomy visualized, positioning, and exposure factors

**Patient Care [Program]**

Students will provide patient care and comfort to patients while performing radiographic procedures

**Radiation Protection [Program]**

Students will be able to apply the principles of radiation protection for the patient, self and others

**12.1 Data SLO 4.1 RADS 356 For F-9**

Academic Year	Students receiving 4/4 on item V-A, F-9 RADS 356 (SLO 4.1)	
	#	%
2014-2015	—	100%
2015-2016	—	100%
2016-2017	—	85%
2017-2018	—	100%
2018-2019	22	100%
2019-2020	21	100%

**Course Links**

**RADS356 [Clinical Radiography III (Lab. 15, Cr. 3)]**

**12.1.1 Analysis of Data and Plan for Continuous Improvement**

2016-2017:

Will continue to trend as this is the second year of trending with an increase in the benchmark.

2017-2018:

Will continue to trend as this is the third year of trending with an increase in the benchmark.

2018-2019:

For 2019, all of those in the random samplings received a score of 4 on Form F-9, item V-A (100%). The established benchmark was met. Will continue to trend as this is the 4th year of trending with an increase in the benchmark.

2019-2020:

For 2020, all of in the random sampling scored a 4 out of 4 on F-9, V-AA. The benchmark was met. This was the fifth year of trending and the benchmark was met; therefore, the

advisory committee will meet and evaluate this objective using another tool to assure that the objective is being met!

### Course Links

#### RADS356 [Clinical Radiography III (Lab. 15, Cr. 3)]

#### 12.2 Data SLO 4.2 RADS 461 Form F-26 item 10

Academic Year	Students receiving 10/10 on item 10, F-26 RADS 461 (SLO 4.2)	
	#	%
2014-2015	—	100%
2015-2016	—	100%
2016-2017	—	73.3%
2017-2018	—	88%
2018-2019	19	90%
2019-2020	21	100%

### Course Links

#### RADS461 [Clinical Radiography V (Lab. 25, Cr. 5)]

#### 12.2.1 Analysis of Data and Plan for Continuous Improvement

2016-2017:

The benchmark was not met. Will trend for the next 3-5 years. If the benchmark continues to not be met, will develop a learning module to assist in emphasizing professional ethics

2017-2018:

The score on this item for 2017 is 88% of the cohort of students scored a 10 on item 10. This is up from 73.3% in 2016. The benchmark was met. Continue to trend. This is the first year of a 3-5 year trending cycle which was decided in 2016.

2018-2019:

The benchmark was met. Continue to trend. This is the second year of a 3–5 year trending cycle which was decided in 2016 and has increased each year.

2019-2020:

For the Fall of 2019, the score on this item is 100% of the cohort of students scored a 101 on item 10, which is up from 90% in 2018. The benchmark was met. The program will continue to trend, this is the fourth year of a 5-year trending cycle.

### Course Links

#### RADS461 [Clinical Radiography V (Lab. 25, Cr. 5)]

#### 13 Assessment and Benchmark Certification and Licensure Exam

Assessment: Graduates will pass the national certification examination on first attempt.

Assessment Instrument: American Registry of Radiologic Technologists (ARRT) national certification, annual first-time passage rates.

Benchmark 1: The % of graduates who take the ARRT radiography certification examination to become certified radiographers will meet or exceed the national passage rate for first-time examinees.

Benchmark 2: Regardless of the national % passage rate on the ARRT examination, the program passage rate should never drop below 75% over a five-year period.

### 13.1 Data

Academic Year	MSU first time pass rate	National first time pass rate	Graduates passing on first or second attempt		5-year average for passage rate
			#	%	
2012-2013	83.3%	93%	—	100%	96% (08-12)
2013-2014	100%	89.65%	—	100%	96% (09-13)
2014-2015	95%	88.9%	—	100%	95% (10-14)
2015-2016	100%	88.4%	—	100%	95.4% (11-15)
2016-2017	100%	87.2%	—	100%	96.7% (12-16)
2017-2018	100%	89.3%	—	100%	98.94% (13-17)
2018-2019	95%	89.4%	18	100%	97.87% (14-18)
2019-2020	95%	89.4%	19	100%	97.87%(15-19)

#### 13.1.1 Analysis of Data and Plan for Continuous Improvement

2016-2017:

When benchmarks are met or surpassed, the program reviews curricula and course outcomes to ensure the integrity of content, reinforcement, and mastery continues to be taught.

2017-2018:

No immediate action because of the 100% passage rate. Comparing the five-year average, there was an increase. The 2012-2016 five-year average was 96.74%, and the five-year average for 2017 is 98.94%. Will continue to trend or monitor indefinitely.

2018-2019:

No immediate action because of benchmark was met for first time passage rate. Also, when comparing the 5 year average no action necessary, even though there was an decrease in the five year average. The 2014–2017 five year average was 98.94%, and the five year avg for 2018 is 97.87%.

2019-2020:

The benchmark was met for both the first time passage rate and for the 5-year average.



End of report