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| jscc logo | **Assessment Record** |

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| **Program:** | **Radiologic Technology** |  **Assessment period:** | **2018-2019** |
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| **Program or Department Mission:**  |

The mission of the Radiologic Technology Program at Jefferson State Community College is to prepare graduates for entry-level employment as a radiologic technologist in the healthcare community.This program mission is consistent with the colleges Statement of Philosophy and Purpose in the Jefferson State Community College Catalog and Student Handbook. |
| **Instructional Program Outcomes & Assessment Plan****The Program’s Outcomes are assessed by the following:**1. The Certification Examination pass rate will be 80% or higher for first-time examinees.
2. 80% of the students admitted into the program will graduate according to program guide lines.
3. Graduates seeking employment will be employed within twelve months of graduation.
4. Students indicate an overall satisfaction with the program.
5. Employers will indicate satisfaction with educational preparation.
 |
| **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** |
| 1. The Certification Examination pass rate will be 80% or higher for first-time examinees.
 | Certification Exam Scores | 80% of graduates will pass the ARRT certification exam of their first testing attempt.The Joint Review Committee on Education in Radiologic Technology (JRCET) standard for pass rates is 75% for first attempt. The program annually exceeds this benchmark so program standards have increased.  | 24/27 passed the certification exam on 1st attempt.88% pass rate | Benchmark metMultiple attempts have been made by the program to contact those students who did not pass on 1st attempt to assist with remediation. To date no only one has contacted the program for assistance. |
| 1. 75% of the students admitted into the program will graduate according to program guide lines.
 | Program Completion Rate | 75% of the students Admitted into the program will graduate according to program guide lines.Since the criteria for admission is changing, this benchmark will be evaluated for the next evaluation period. | 27/34 or 79 % of students who were admitted into the program completed the program. 34 started program 27 finished | Benchmark met2 dropped personal reasons. 5 failed RAD courses.Multiple items have been put into place to assist with program retention. Program faculty have requested to be put on the college’s retention committee to see if there is additional areas that may be addressed. Christie Bolton will be serving on the college’s retention committee. |
| 1. Graduates seeking employment will be employed within twelve

 months of graduation | Graduate Satisfaction Survey (Question 2) | 75% of graduates actively seeking employment will be employed within 12 months of graduation.This is the established benchmark from the JRCERT. |  100%27 graduates24 graduates seeking employment24 graduates employed | Benchmark met100% or 24/24 students were gainfully employed in radiologic technology within 2 months of program completion. The 3 students who did not pass the certification exam on first attempt will seek employment after passing the exam. |
| 1. Students indicate an overall satisfaction with the program.
 | Graduate Survey (Question 17) | Average score of 2.5 or higher on a 0-3 possible point scale. | 2.8 | Benchmark metThis item will continue to be monitored |
| 1. Employers will indicate satisfaction with educational preparation.
 | Employer Survey(Question R) | Average score of 2.5 or higher on a 0-3 possible point scale. | 2.8 | Benchmark metThis item will continue to be monitored |
| **Plan submission date: 8-28-19** | **Submitted by: Christie W. Bolton** |

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| jscc logo | **Assessment Record** |

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| **Program:** | **Radiologic Technology** |  **Assessment period:** | **18-19** |
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| **Program or Department Mission:**  |

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| **Instructional Program Student Learning Outcomes & Assessment Plan****Student Learning Outcomes are assessed by the following:**1. Students will apply positioning skills.
2. Student will select appropriate technical factors
3. Students will practice radiation protection.
4. Students will use effective oral communication skills.
5. Students will practice written communication skills.
6. Students will manipulate technical factors for non-routine examinations.
7. Students will adapt positioning for trauma patients.
8. Students will develop a professional resume
9. Students will exhibit professional behaviors such as punctuality in the clinical setting.
 |
| **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** |
| 1. Students will apply positioning skills.
 |  1. Laboratory SimulationRepeat Analysis Form2. Clinical Competency Repeat analysis form for Clinical Education V3. Graduate SurveyPortable radiography section | 1. There will be an increase in the pass rate of lab comps in Procedures II as compared to Procedures I in radiographic positioning.2. There will be an increase in the pass rate of clinical comps in Clinical Education III as compared to Procedures II due to radiographic positioning 3. Score of 2.5 or higher Scale (1-3) | 1. 98% Pass rate Procedures I 34 students enrolled1904/1967 procedures completed 97% Pass Rate Procedures II 31 students enrolled1240/1276 procedures completed97% pass rate for Procedures II2. 97 % Pass rate Procedures II27 students enrolled in Clinical Ed III13 comps each student351 total comps repeat failed comps349/351 or 99% pass rate3. score 2.7 | 1. Benchmark met

This item will continue to be monitored2. Benchmark metContinued analysis of this item. .3.Benchmark metContinued analysis of this item. |
| 1. Student will select appropriate technical factors
 | 1. Laboratory SimulationPositioning section, technique selection of the Laboratory Competency Form in Procedures IIAverage of technique selection score of all comps in Procedures II2. Clinical Competency Positioning section, technique selection of the Clinical Competency FormAverage of technique selection score of all comps in Clinical Education for Program  | 1. Average score of 80% or higher2. There are a total of 56 mandatory competencies for each enrolled student which has a grading section for the technique selection. | Average score of 99% 2. All competencies required a technique to be completed on the comp form. All students completed the technique section on the comp form. | Benchmark met2. Benchmark metThis item was changed for this assessment period. Faculty will monitor the changes.  |
| 1. Students will practice radiation protection.
 | 1. Laboratory SimulationRepeat Analysis form2. Clinical Competency Positioning section, radiation protection section, of the Clinical Competency FormAverage of radiation protection section score for all students for all competencies in clinical education for the program. | 1. 90% or higher of enrolled students in RAD 122 will meet the established criteria for radiation protection2. 90% of students will not have a repeat due to radiation protection. | 1. Of the lab competency 29/34 or 85% of students met the established criteria for radiation protection

 27 students enrolled 26/27 passed the radiation protection section for all clinical comps. | Benchmark not met.There were 7 students who failed this course.Benchmark met.This item will be reviewed for effectiveness. |
| 1. Students will use effective oral communication skills.
 | 1. Presentation in RAD 136 Radiation ProtectionAverage of presentation grades for the course2. Presentation in RAD 212 Radiographic Pathology componentAverage of presentation grades | 1. Average score of 85% or higher on presentation.2. Average Score of 85% or higher on presentation. |  1. Average score 89% 27 students enrolled2. Average score 91% Students enrolled | 1. Benchmark met1 student chose a “0” for the presentation which skewed the results slightly.This measurement tool is changed every few years to reflect the current needs of the program2. Benchmark was met. |
| 5. Students will practice written communication skills. | 1. Writing of a paper in RAD 136, Radiation ProtectionAverage score of paper grades2 RAD 212 Radiographic Pathology component. Average of malpractice assignment grade | 1. Average Score of 85% or higher on presentation.2. Average score of 85% or higher | 1. Average score 97%21 students enrolled2. Average score91% 27 students enrolled | 1. Benchmark met

This assessment is changed every few years to reflect current trends.2. The established benchmark was met.  |
| 1. Students will manipulate technical factors for non-routine examinations.
 | 1. Exposure Lab Technique Exercises
2. Clinical Competency form, positioning section
 | 1. Average score of 80% or higher
2. Average score of 80% or higher
 | 1. Average score

83% 28 students enrolled1. 26/27 students or 96% of students scored 80% or higher on this section.

27 students enrolled | 1. Benchmark was met.
2. Benchmark met
 |
| 1. Students will adapt positioning for trauma patients.
 | 1. Clinical Competency form

Average score of clinical competency on trauma comps for each student in clinical education for the program.2. Test on Trauma Average of Trauma test grades in RAD 122 Radiographic Procedures II | 1. 90% of students will pass the trauma comps.

2. Average score of 80% or higher | 1. Average score

 88 %24/27 graduates 1. Average score

84%29 students took the test | 1. Benchmark not met.

This item was changed in this assessment period.3 failures were from the trauma shoulder quiz. The quizzes for clinical comps are being updated.2. Benchmark metThe Danielus Miller comp will be added to the next assessment cycle, reinforcing this material. |
| 1. Students will develop a professional resume
 | Writing a ProfessionalResume | 85% or higher on 100% scale | 27/27 or 100% of students wrote a professional resume with 85% or higher | Benchmark metThis item has been used for several years to analysis communication skills in writing. Faculty feel that it is still relevant in the importance of professionalism. |
| 9. Students will exhibit professional behaviors such as punctuality in the clinical setting. | 1. Time Card | 1. 90% of students enrolled in the final semester will have less than 3 tardies per semester | 1. 26/27 or 97% of students hadless than 3 tardies per semester | 1. Benchmark metThe single student who had multiple tardies was counselled each semester and eventually failed the clinical course due to tardies. |
| **Plan submission date: 8-28-19** | **Submitted by: Christie W. Bolton** |
| jscc logo | **Assessment Record** |

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| **Program:** | **Radiologic Technology** |  **Assessment period:** | **18-19** |

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| **Program or Department Mission:**  |

The mission of the Radiologic Technology Program at Jefferson State Community College is to prepare graduates for entry-level employment as a radiologic technologist in the healthcare community.This program mission is consistent with the colleges Statement of Philosophy and Purpose in the Jefferson State Community College Catalog and Student Handbook. |

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| **Course Student Learning Outcomes & Assessment Plan****RAD 111 Introduction to Radiology****Student Learning Outcomes may be measured as follows:**1. Students will demonstrate knowledge of radiation protection practices
2. Students will comprehend ethical issues associated with Radiologic Science
3. Students will comprehend the formation and use of medical terminology associated with Radiologic Science.
 |
| **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** |
| 1. Students will demonstrate knowledge of radiation protection practices
 | Radiation Protection Exam | 90% of students will have an average grade of 80% or higher on the Radiation Protection ExaminationThe high standards were set because of the complexity of the ARRT certification exam. The program will evaluate trends and re-evaluate the standards set. | 31/34 or 91% of students scored 80% or higher. | Benchmark metThis tool is an important part of assessing the knowledge of radiation protection. Faculty will continue monitor this item.\*2 out of the 3 students who did not pass the assessment with 80% or higher did not complete the program.  |
| 1. Students will comprehend ethical issues associated with Radiologic Science.
 |  Students will explainthe importance of thePatients’ Bill of Rights. | 90% of students will have an average grade of 80% or higher on the Patient’s Bill of Rights assignment.The high standards were set because of the complexity of the ARRT certification exam. The program will evaluate trends and re-evaluate the standards set. | 33/34 or 97% of students scored 80% or higher. | Benchmark met Continued analysis of this item will be assessed. |
| 1. Students will comprehend the formation and use of medical terminology associated with Radiologic Science.
 | Medical Terminology assessment exams. | 90% of students will have an average grade of 80% or higher on the Medical Terminology assessments.The high standards were set because of the complexity of the ARRT certification exam. The program will evaluate trends and re-evaluate the standards set. | /3334 or 97% of students scored 80% or higher.There are 13 medical terminology assessments. | Benchmark metThe one student who did not score 80% or higher on the medical terminology assessments did not complete several of the assessments. |
| **Plan submission date: 8-28-19** | **Submitted by: Christie Bolton** |
| **Course Student Learning Outcomes & Assessment Plan****RAD 112 Radiographic Procedures I****Student Learning Outcomes may be measured as follows:**1. Students will demonstrate knowledge of basic positioning, planes, movement and direction.
2. Demonstrate knowledge of techniques to manipulate radiographic equipment.
 |
| **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** |
| 1. Students will demonstrate knowledge of basic positioning, planes, movement and direction
 | Written exam on general anatomy, terminology and positioning principles. | 90% of students will achieve 75% or higher on exam.The high standards were set because of the complexity of the ARRT certification exam. The program will evaluate trends and re-evaluate the standards set. | 24/34 or 70% of student passed the exam with 75% or higher | Benchmark not met.Even though the benchmark was not met, measures such as quizzes in the lab reinforce the material. The success rate for this item increased from the previous year.6/10 who did not meet the benchmark, did not finish the program.This item will continue to be monitored because this information is essential for the job as a radiologic technologist. |
| 1. Demonstrate knowledge of techniques to manipulate radiographic equipment.
 | Competency demonstrations in lab. | 90% of students will achieve 80% or higher on the lab competency grade.The high standards were set because the set pass rate for clinical evaluation is 80% or higher for passing. | 34/34 or 100% of students achieved 80% or higher on competency grade. | Benchmark met.This item seems to be working. Continued analysis will be followed. |
| **Plan submission date:8-28-19** | **Submitted by: Annette Ferguson** |
| **Course Student Learning Outcomes & Assessment Plan****RAD 113 Patient Care****Student Learning Outcomes may be measured as follows:**1. Students will demonstrate body mechanics for patient safety, comfort, and transfer.
2. Students will demonstrate competency is obtaining vital signs.
3. Students will able to administer selected pharmacological agents related to radiologic procedures demonstrated through competency in venipuncture techniques.
 |
| **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** |
| 1. Students will demonstrate body mechanics for patient safety, comfort, and transfer.
 | Safe Transfer Techniques check –off demonstration form. | Students will be competent in demonstrating safe transfer techniques. |  100% of enrolled students performed competency.34 enrolled | Benchmark met.This item is important to monitor due to the safety of the student as well as any patient in their care. Continued monitoring of this item.  |
| 2. Students will demonstrate competency is obtaining vital signs. | Vital Signs check-off demonstration form. | Students will be competent in obtaining vital signs. | 34/34 or 100% of students performed competency. | Benchmark met.This item will continue to be monitored. |
| 3. Students will able to administer selected pharmacological agents related to radiologic procedures demonstrated through competency in venipuncture techniques. | 1. Venipuncture competency form.2. Also a written venipuncture exam. | 1. Students will have a 85% or higher on venipuncture competency2. Students will have a 85% or higher on exam.The high standards were set because of the complexity of patient care standards in the clinical education setting.  | 1. 34/34 or 100% of students performed competency with 85% accuracy.2. 30/34 or 88% of students completed the written exam with 85% or higher accuracy. | 1. Benchmark met.
2. Benchmark met.

3 out of 4 students who did not meet the benchmark did not complete the program.Continue to monitor this item. |
| **Plan submission date: 8-28-19** | **Submitted by: Annette Ferguson** |
| **Course Student Learning Outcomes & Assessment Plan****RAD 114 Clinical Education I****Student Learning Outcomes may be measured as follows:**1. Students will demonstrate competency in Cardiopulmonary resuscitation (CPR) at the professional provider level.
2. Students will demonstrate knowledge of radiation protection practices
 |
| **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** |
| 1. Students will demonstrate competency in Cardiopulmonary resuscitation (CPR) at the professional provider level.
 | CPR certification documentation  | 100% of students will be CPR certified at the professional provider levelThe high benchmark is a standard set by the clinical facilities affiliated with the program. | 30/30 or 100% of students provided CPR certification documentation. | Benchmark metThis is an ongoing assessment due to the requirements of the clinical environment. |
| 1. Students will demonstrate knowledge of radiation protection practices
 | Radiation Protection Exam | 90% of students will have an average grade of 80% or higher on the Radiation Protection ExaminationThe high standards were set because of the complex clinical environment which the students are placed. | 34/34 or 100% of students obtained 80% or higher. | Benchmark metThis is an ongoing assessment. |
| 1. Students will demonstrate knowledge of the Health Insurance Portability and Accountability Act
 | HIPAA exam | 90% of students will achieve 80% or higher on the HIPAA exam.The high standards were set because of the complexity of the ARRT certification exam. The program will evaluate trends and re-evaluate | 34/34 or 100% of enrolled students obtained an 80% or higher on the HIPAA exam. | Benchmark met.Continued monitoring of this assessment item. |
| **Plan submission date:8-28-19** | **Submitted by: Christie W. Bolton** |
| **Course Student Learning Outcomes & Assessment Plan****RAD 122 Radiographic Procedures II****Student Learning Outcomes may be measured as follows:**1. Students will define terms related to the principles of radiographic procedures of the spine.
2. Students will explain routine and special views for specific radiographic procedures.
 |
| **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** |
| 1. Students will define terms related to the principles of radiographic procedures of the spine.
 | Written exam on the spine. | 90% of students will achieve 75% or higher.The high standards were set because of the complexity of the ARRT certification exam. The program will evaluate trends and re-evaluate the standards set. | 30/30 or 54% of students achieved 75% or higher. | Benchmark metThe additional x-table C-spine comp was added to reinforced this item.Continued assessment of the item. |
| 1. Students will explain routine and special views for specific radiographic procedures.
 | Competency demonstrations in lab. | 90% of students will achieve 80% or higher on the lab competency grade.The high standards were set because of the complexity of the ARRT certification exam. The program will evaluate trends and re-evaluate the standards set. | 28/29 or 96% of students achieved 80% or higher on competency grade. | Benchmark met.Continued monitoring of this assessment item. |
| **Plan submission date:8/28/19** | **Submitted by: Annette Ferguson** |
| **Course Student Learning Outcomes & Assessment Plan****RAD 124 Clinical Education II****Student Learning Outcomes may be measured as follows:**1. Students will demonstrate knowledge of radiation protection practices.
2. In a clinical environment, students will perform radiographic activities.
 |
| **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** |
| 1. Students will demonstrate knowledge of radiation protection practices
 | Radiation Protection critical skill | 90% of students will have an average grade of 80% or higher on the Radiation Protection section of the competency evaluation form.The high standards were set because of the issues of radiation protection regarding clinical patients. | 28/29 or 97% of students averaged 80% or higher on this section. | Benchmark metThis is an ongoing assessment for clinical education. |
| 1. In a clinical environment, students will perform radiographic activities
 | Successful completion of competency exams. | 100% of students will successfully complete the designated number of competency exams.The ARRT and JRCERT both require specific competencies for all RAD program graduates to complete successfully. | 29/29 or 100% of students, who completed the course, completed the designated number of competency exams. | Benchmark metThis is an ongoing assessment. |
| **Plan submission date:8/28/19** | **Submitted by: Christie W. Bolton** |
| **Course Student Learning Outcomes & Assessment Plan****RAD 125 Imaging Equipment****Student Learning Outcomes may be measured as follows:**1. The student will pass Unit I exams regarding concepts related to the atomic structure.
2. The student will pass Unit II exams regarding the X-ray Imaging System.
3. The student will pass Unit III exams regarding Conventional and Computed Tomography.
4. The student will pass Unit V exams regarding Digital and Fluoroscopic Imaging.
 |
| **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** |
| 1. The student will pass Unit I exams regarding concepts related to the atomic structure.
 | Unit I exams. | 90% of students will achieve 75% or higher on Unit I exams.The high standards were set because of the complexity of the ARRT certification exam. The program will evaluate trends and re-evaluate the standards set. | 25/30 or 83% of students passed the Unit I exam. | Benchmark not metThis item will be continually monitored.The instructor has evaluated the content of this section and has determined that the content needs to be broken into more than one exam. There will be 2 exams on the Unit I material in the next assessment cycle. |
| 1. The student will pass Unit II exams regarding the X-ray Imaging System.
 | Unit II exams. | 90% of students will achieve 75% or higher on Unit II exams.The high standards were set because of the complexity of the ARRT certification exam. The program will evaluate trends and re-evaluate the standards set. | 27/30 or 90% of students passed the Unit II exam | Benchmark metContinued monitoring of this assessment. |
| 1. The student will pass Unit III exams regarding Conventional and Computed Tomography.
 | Unit III exams. | 90 % of students will achieve 75% or higher on Unit IV exams.The high standards were set because of the complexity of the ARRT certification exam. The program will evaluate trends and re-evaluate the standards set. | 29/30 or 97% of students passed the Unit III exam | Benchmark metContinued monitoring of this assessment. |
| 1. The student will pass Unit IV exams regarding Digital and Fluoroscopic Imaging.
 | Unit IV exams | 90% of students will achieve 75% or higher on Unit V exams.The high standards were set because of the complexity of the ARRT certification exam. The program will evaluate trends and re-evaluate the standards set. | 29/30 or 97% of students passed the Unit IV exam | Benchmark metContinued monitoring of this assessment. |
| **Plan submission date:8/28/19** | **Submitted by: Christie Bolton** |
| **Course Student Learning Outcomes & Assessment Plan****RAD 134 Clinical Education III****Student Learning Outcomes may be measured as follows:**In a clinical environment, students will perform radiographic activities |
| **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** |
| In a clinical environment, students will perform radiographic activities | Successful completion of competency exams. | 100% of students will successfully complete the designated number of competency exams.The ARRT and JRCERT both require specific competencies for all RAD program graduates to complete successfully. | 27/27 or 100% of students who completed the course, completed the designated number of competency exams. | Benchmark metThis is an ongoing assessment. |
| **Plan submission date: 8/28/19** | **Submitted by: Christie Bolton** |
| **Course Student Learning Outcomes & Assessment Plan****RAD 135 Exposure Principles****Student Learning Outcomes may be measured as follows:**1. Students will demonstrate knowledge of density, contrast, detail and distortion on radiographic images.
2. Students will demonstrate knowledge of exposure principles and quality assurance in the laboratory setting.
 |
| **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** |
| 1. Students will demonstrate knowledge of digital technical factors.
 | Written exam on quality factors. | 90% of students will achieve 75% or higher.The high standards were set because of the complexity of the ARRT certification exam. The program will evaluate trends and re-evaluate the standards set. | 26/28 or 93% of students achieved 75% or higher. | Benchmark met.This item is effective in measuring the assessment. |
| 1. Students will demonstrate knowledge of exposure principles and quality assurance in the laboratory setting.
 | Lab demonstration folder. | 90% of students will achieve 75% or higher on lab folder.The high standards were set because of the complexity of the ARRT certification exam. The program will evaluate trends and re-evaluate the standards set. | 28/28 or 100% of students achieved 75% or higher. | Benchmark met. This is an ongoing assessment |
| **Plan submission date: 8/28/19** | **Submitted by: Annette Ferguson** |
| **Course Student Learning Outcomes & Assessment Plan****RAD 136 Radiation Protection and Biology****Student Learning Outcomes may be measured as follows:**1. Students will explain the fundamental principles of molecular and cellular radiobiology.
2. Students will explain basic concepts related to radiation protection.
3. Students will explain the importance of radiation protection procedures for patients and personnel.
 |
| **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** |
| 1. Students will explain the fundamental principles of molecular and cellular radiobiology.
 | Exam on cellular radiobiology | 90% of students will achieve 75% or higher molecular and cellular radiobiology exams.The high standards were set because of the complexity of the ARRT certification exam. The program will evaluate trends and re-evaluate the standards set. | 27/27 or 100% students achieved 75% or higher | Benchmark metContinued analysis of this item will be assessed. |
| 1. Students will explain basic concepts related to radiation protection.
 | Exam on radiation monitoring, radiation quantities and units. | 90% of students will achieve 75% or higher on radiation monitoring and radiation quantities and units exam.The high standards were set because of the complexity of the ARRT certification exam. The program will evaluate trends and re-evaluate the standards set. | 27/27 or 100% students achieved 75% or higher | Benchmark metContinued analysis of this item will be assessed. |
| 1. Students will explain the importance of radiation protection procedures for patients and personnel.
 | Scientific Research paper on radiation protection for patients or personnel. | 90% of students will achieve a 75% or higher grade on the scientific research paper.The high standards were set because of the complexity of the ARRT certification exam. The program will evaluate trends and re-evaluate the standards set. | 27/27 or 100% of students achieved 75% or higher on the research paper. | Benchmark metThis benchmark is changed periodically during the program assessment. There should be one additional assessment cycle before the assessment changes. |
| **Plan submission date: 8/28/19** | **Submitted by: Christie W. Bolton** |
| **Course Student Learning Outcomes & Assessment Plan****RAD 212 Image Evaluation and Pathology****Student Learning Outcomes may be measured as follows:**1. Students will explain concepts related to guidelines of radiographic image evaluation.
2. Students will demonstrate evaluation criteria, anatomy demonstration, and image quality with emphasis placed on body system approach to pathology in the laboratory setting.
 |
| **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** |
| 1. Students will explain concepts related to guidelines of radiographic image evaluation.
 | Written exam on guidelines of radiographic image evaluation. | 90% of students will achieve 75% or higher.The high standards were set because of the complexity of the ARRT certification exam. The program will evaluate trends and re-evaluate the standards set. | 28/28 or 100% of students scored 75% or higher on exam. | Benchmark met.Continued assessment of this item. |
| 1. Students will demonstrate evaluation criteria, anatomy demonstration, and image quality with emphasis placed on body system approach to pathology in the laboratory setting.
 | Critiques of individual images. | 90% of students will achieve 75% or higher.The high standards were set because of the complexity of the ARRT certification exam. The program will evaluate trends and re-evaluate the standards set. | 28/28 or 100% of students scored 75% or higher on exam. | Benchmark met.Continued monitoring of this item. |
| **Plan submission date:8-28-19** | **Submitted by: Annette Ferguson** |
| **Course Student Learning Outcomes & Assessment Plan****RAD 214 Clinical Education IV****Student Learning Outcomes may be measured as follows:**1. Students will demonstrate knowledge of radiation protection practices.
2. In a clinical environment, students will perform radiographic activities.
3. Students will explain the basic principles of image formation in computed tomography.
 |
| **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** |
| 1. Students will demonstrate knowledge of radiation protection practices
 | Radiation Protection section for competencies. | 90% of students will have an average grade of 80% or higher on the Radiation Protection section of the competency evaluation form.The high standards were set because of the complexity of the ARRT certification exam. The program will evaluate trends and re-evaluate the standards set. | 27/27 or 100% of students had an overall average grade of 80% or higher in this section on completed comps. No student had a repeat competency for deficiency for patient shielding. | Benchmark metNo additional action is needed at this time. This is an ongoing assessment. |
| 1. In a clinical environment, students will perform radiographic activities
 | Successful completion of competency exams. | 100% of students will successfully complete the designated number of competency exams.The ARRT and JRCERT both require specific competencies for all RAD program graduates to complete successfully. | 27/27 or 100% of students completed the designated number of competency exams. | Benchmark metNo additional action is needed at this time. This is an ongoing assessment. |
| 1. Students will explain the basic principles of image formation in computed tomography.
 | Cross- sectional anatomy exams. | 90% of students will have an average grade of 80% or higher on the Cross-sectional anatomy exams.The high standards were set because of the complexity of the ARRT certification exam. The program will evaluate trends and re-evaluate the standards set. | 25/27 or 93% of students had an overall average grade of 80% or higher on cross-sectional anatomy exams. | Benchmark metThis benchmark has been met for several assessment cycles however, the ARRT requires a CT with cross-sectional component within the program so this will be an ongoing assessment. |
| **Plan submission date: 8/28/19** | **Submitted by: Christie Bolton** |
| **Course Student Learning Outcomes & Assessment Plan****RAD 224 Clinical Education V****Student Learning Outcomes may be measured as follows:**1. Students will demonstrate knowledge of radiation protection practices.
2. In a clinical environment, students will perform radiographic activities.
 |
| **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** |
| 1. Students will demonstrate knowledge of radiation protection practices
 | Radiation Protection Critical Skills | 90% of students will have an average grade of 80% or higher on the Radiation Protection section of the competency evaluation form.The high standards were set because of the complexity of the ARRT certification exam. The program will evaluate trends and re-evaluate the standards set. | 26/27 or 96% of students had an overall average grade of 80% or higher in this section. No student had a repeat competency for deficiency of patient shielding. | Benchmark metNo additional action is needed at this time. Radiation protection is one of the topics that the ARRT and the JRCERT require an evaluation for. Because of this, this is an ongoing assessment. |
| 1. In a clinical environment, students will perform radiographic activities
 | Successful completion of competency exams. | 100% of students will successfully complete the designated number of competency exams.The ARRT and JRCERT both require specific competencies for all RAD program graduates to complete successfully. | 27/27 or 100% of students completed the designated number of competency exams. | Benchmark metNo additional action is needed at this time. This is an ongoing assessment. |
| **Plan submission date: 8/28/19** | **Submitted by: Christie Bolton** |
| **Course Student Learning Outcomes & Assessment Plan****RAD 227 Review Seminar****Student Learning Outcomes may be measured as follows:**1. Students will demonstrate knowledge of radiation protection practices.
2. Students will explain concepts related to image production and evaluation.
3. Students will explain concepts related to specific radiographic procedures.
4. Students will explain concepts related to patient care and education.
5. Students will prepare for entry into the profession.
 |
| **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** |
| 1. Students will demonstrate knowledge of radiation protection practices
 | Section Exam onRadiation Protection Exam | 90% of students will have an average grade of 80% or higher on the Radiation Protection ExaminationThis course is taught in the last semester of the program where students are prepared to take their certification exam. The high standards were set because of the complexity of the ARRT certification exam. Due to the low scores, the program will evaluate trends and re-evaluate the standards set. | 17/27 or 63% of students scored 80% or higher | Benchmark not metEvaluation of this item is important. The instructor revised the review section to reinforce the material. The item’s overall average increased from the previous year. This item will continue to be monitored. |
| 1. Students will explain concepts related to image production and evaluation
 | Section Exam on Image Production and Evaluation | 90% of students will have an average grade of 80% or higher on the first attempt of the Image Production and Evaluation Section exam.This course is taught in the last semester of the program where students are prepared to take their certification exam. The high standards were set because of the complexity of the ARRT certification exam. Due to the low scores, the program will evaluate trends and re-evaluate the standards set. | 12/27 or 45% of students scored 80% or higher | Benchmark not metThe image evaluation course was modified for this cohort. The instructor for this course will add additional information to reinforce this content.This item will continue to be monitored. |
| 1. Students will explain concepts related to specific radiographic procedures.
 | Section Exam on Radiographic Procedures. | 90% of students will have an average grade of 80% or higher on the first attempt of the Radiographic Procedures Section exam.This course is taught in the last semester of the program where students are prepared to take their certification exam. The high standards were set because of the complexity of the ARRT certification exam. Due to the low scores, the program will evaluate trends and re-evaluate the standards set. | 17/27 or 63% of students scored 80% or higher | Benchmark not metThis item will continue to be monitored. |
| 1. Students will explain concepts related to patient care and education
 | Section Exam on Patient Care and Education | 90% of students will have an average grade of 80% or higher on the first attempt on the Patient Care and Education Section Exam.This course is taught in the last semester of the program where students are prepared to take their certification exam. The high standards were set because of the complexity of the ARRT certification exam. Due to the low scores, the program will evaluate trends and re-evaluate the standards set. | 26/27 or 96% of students scored 80% or higher | Benchmark metThis item will continue to be monitored. |
| 1. Students will prepare for entry into the profession
 | Writing a Professional Resume | 90% of students will have an average grade of 80% or higher on the Professional ResumeThis course is taught in the last semester of the program where students are prepared to take their certification exam and prepare for employment. Completing a professional resume is essential in obtaining employment.  | 27/27 or 100% of students scored 80% or higher on the Professional Resume. | Benchmark metThis is an ongoing assessment.Modifications in employment readiness vary according to the employment needs of each graduate. |
| **Plan submission date: 8/28/19** | **Submitted by: Christie W. Bolton** |