

Southern Illinois University Carbondale
College of Applied Sciences and Arts
School of Allied Health
Basic Radiography Program
Assessment Plan
Analysis and Actions

Based on the January 2024 – December 2024 Radiography Program Class

MISSION: The mission of the Radiography Program at Southern Illinois University Carbondale is to provide a quality program integrating education, research and service in order to meet the needs of the profession and improve health care of the people and communities we serve.

GOAL #1: Students will practice as a competent entry level professional Radiographer.

| Outcome | Measurement Tool | Benchmark | Timeframe | Responsible Party | Results | Analysis |
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| 1. Students will apply positioning skills as an entry level radiographer. | 1.Lab Stimulation Class (average for entire class) | Average Score to be 85% or above | 1 st year Students - Fall Semester | Lab Instructor | 2018: 96.44% 2019: 91.17% 2020: 95.96% 2021: 92.26% 2022: 94.5% | 2018 - Goal met 2019 - Goal met 1. Scores continue to be high. Continue to monitor Lab Instructors (3) so all are instructing the same. (as in positioning) 2020 - Goal met 1. Continue to follow the same as 2019. 2021 – Goal Met 1. Score slightly lower than 2020. Continue to monitor lab instructors to make sure grading is consistent. 2022: - Goal met 1. Score is 2% points higher than 2021. Lab instructors consistent. Continue with |

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| | | | 1 st year Students – Summer Semester | | <p>2023: 94.76%</p> <p>2024: 94.3%</p> <p>2018: 96.03% 2019: 91.27%</p> <p>2020: 99%</p> | <p>monitoring.</p> <p>2023:- Goal Met</p> <ol style="list-style-type: none"> 1. Score continues to increase 2. Lab instructors continue the same 3. Monitor <p>2024 – Goal Met</p> <ol style="list-style-type: none"> 1. Scores continue to be good. 2. Continue to monitor. <p>2018 - Goal met 2019 - Goal Met</p> <ol style="list-style-type: none"> 1. Score is lower due to updated and more stringent Lab Test. More emphasis on technique choices. <p>2020 – Due to the Covid Pandemic, we were unable to have Face to Face labs. As a substitute the students did the following projects:</p> <ol style="list-style-type: none"> 1. Each student did a written report for how they would position each projection, the CR, angle of tube, patient preparation, history questions, technical factors to be used, shielding. 2. Each student was given a Lab |
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| | | | | | | <p>Final Paper with different patient scenarios. Each student wrote a paper about their journey as the technologist imaging the patient. A Rubric was made to grade the assignment. The 99% is the overall average of that assignment.</p> |
| | | | | | 2021:97% | <p>2021 – Goal Met</p> <ol style="list-style-type: none"> 1.Face to face labs resumed. |
| | | | | | 2022:98.2% | <p>2022: - Goal Met</p> <ol style="list-style-type: none"> 1. Average score slightly higher than previous year. 2. Continue existing lab instructor protocol for high scores. |
| | | | | | 2023: 99.2% | <p>2023: Goal met</p> <ol style="list-style-type: none"> 1. Try 100% next year 2. Continue to monitor |

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| 1. Cont. | 2.Clinical Student Behavior Evaluation Form Item #2. (<i>Quality of work</i>) | Students will receive at least a 3.5 or greater on a scale of 5. | 1 st year Students – Spring Semester | Clinical Instructors | <p>2024: 99.6%</p> <p>2018: 3.63 2019: 4.32</p> <p>2020:4.61</p> <p>2021: 4.7</p> <p>2022:4.63</p> <p>2023: 4.6</p> <p>2024: 4.6</p> | <p>2024:- Goal Met</p> <p>1. Wanted to have 100% for this and if we round up that goal was achieved. Continue the same.</p> <p>2018 – Goal met 2019 - Goal met</p> <p>1. Score has increased from 2018. Possibility due to quality of students.</p> <p>2020 – Goal Met</p> <p>1. Score again increased from previous year. Class had higher entry level scores than previous year.</p> <p>2021 – Goal Met</p> <p>1.Very motivated class this year</p> <p>2022 - Goal Met</p> <p>1. Continue to present high quality of student's work.</p> <p>2023:- Goal Met</p> <p>1. Score continues to be very consistent</p> <p>2. Continue with good quality labs</p> <p>2024:- Goal Met</p> <p>1. Scores continue to be high for the first semester of clinical.</p> <p>2. Students are watching</p> |
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| | | Students will receive a 3.75 or greater on a scale of 5. | 2 nd year Students – Fall Semester | Clinical Instructor | 2018: 3.88 2019: 4.67 2020: 4.73 2021: 4.7 2022:4.7 2023: 4.7 | and learning from their peers at their clinic sites. 2018 – Goal met 2019 - Goal met 1. Score is the highest in 5 year. Possibility due to quality of students. 2020 – Goal met 1. Score again increased from previous year. Class had higher entry level scores than previous year. 2021 – Goal Met 1.Very motivated class in 2021 2022:- Goal Met 1. Encourage students to continue to exhibit good quality of work as they transition from fall lab class to spring clinicals. 2023:- Goal Met 1. Encourage students to stay focused as they transition into spring clinicals |
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| 2. Students will select appropriate technical factors. | 1.Lab Simulation Class (<i>Technique selection; Appropriate technical factors selected – mAs, kVp, etc.</i>) Random sampling of four different exams per student. | Students will select correct mAs, kvp with minimum of 80% accuracy | 1 st Year Students – Fall Semester | Lab Instructors/ Program Director | <p>2024: 4.9</p> <p>2018: 96% 2019: 98.75%</p> <p>2020: 96.20%</p> <p>2021: 95.4%</p> <p>2022:96.1%</p> <p>2023: 95.6%</p> | <p>2024 – Goal Met</p> <ol style="list-style-type: none"> Score is higher for the student's second semester of clinical. Continue to monitor. <p>2018 – Goal Met 2019 - Goal Met</p> <ol style="list-style-type: none"> Adding technique chart exams for students has helped in remembering mAs& kVp for anatomy. <p>2020 – Goal Met</p> <ol style="list-style-type: none"> Score slightly lower but still great. Continue with exams adding technique charts. <p>2021 – Goal Met</p> <ol style="list-style-type: none"> Score slightly lower. Will continue to reinforce manual technique settings <p>2022: - Goal Met</p> <ol style="list-style-type: none"> Continue with the goal of students memorizing technical factors from Merrills. <p>2023:- Goal Met</p> <ol style="list-style-type: none"> Score slightly |
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| | | | 1 st Year Students – Summer Semester | | <p>2024: 98.8%</p> <p>2018: 92% 2019: 100%</p> <p>2020: COVID</p> | <p>less this year..</p> <p>2. Encourage Lab Instructors to ask students what certain technical factors are used, mix up the anatomical parts.</p> <p>2024 – Goal Met</p> <p>1. This class did very well at learning technical factors for their first clinic semester.</p> <p>2018 – Goal Met. 2019 - Goal Met.</p> <p>1. Scores were perfect. Students paying more attention to technical factors to be used.</p> <p>2020 – Due to the Covid Pandemic, we were unable to have Face to Face labs. As a substitute the students did the following projects:</p> <p>1. Each student did a written report for how they would position each projection, the CR, angle of tube, patient preparation, history questions, technical factors to be used, shielding.</p> <p>2. Each student was given a Lab</p> |
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| | | | | | <p>2021:97%</p> <p>2022:98%</p> <p>2023: 99%</p> | <p>Final Paper with different patient scenarios. Each student wrote a paper about their journey as the technologist imaging the patient. A Rubric was made to grade the assignment. The 99% is the overall average of that assignment.</p> <p>2021 – Goal Met 1.Back to face to face labs</p> <p>2022: - Goal Met 1. Continue to remind students that Merrills provides base technical factors to insure students have a place to start with amounts of radiation to use per part. 2. Remind student also, not every technologist uses the same technical factors which can be tough when students are learning.</p> <p>2023:- Goal Met 1. Remind students to memorize a technical factor for head work and not rely totally on anatomically</p> |
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| 2. cont. | 2.Clinical Student Behavioral Evaluation Form. #3 (<i>Technical Knowledge/Application</i>) | Students will receive a 3.75 or greater on a scale of 5. | 1 st Year Students – Spring Semester | Clinical Instructors | 2024: 99.8% 2018: 3.97 2019: 4.44 2020: 4.52 2021: 4.7 | 2024 – Goal Met 1. Less exams to learn so it is easier for students to learn technical factors. 2018 – Goal Met. 2019 - Goal Met. 1. Continue with technique charts in the fall semester class for memorization of common technical factors for common exams. 2020 – Goal Met 1. Continue with exams adding technique charts. 2021 – Goal Met 1.Continue emphasis |
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| | | | | | 2022:4.53 | on technical factors 2022 - Goal Met 1. Scores slightly less than in "21. Will continue with learning techniques in RAD 112Lab. |
| | | | | | 2023: 4.64 | 2023:- Goal Met 1. Higher than class before continue encouraging students to memorize technical factors |
| | | | | | 2024: 4.57 | 2024 – Goal Met 1. For the first semester of clinical, the student's scores have stayed fairly consistent. 2. Continue to push during fall Lab class. |
| | | Students will receive a 4.0 or greater on a scale of 5. | 2 nd Year Students – Fall Semester | | 2018: 4.47 2019: 4.46 | 2018 – Goal Met. 2019 - Goal Met. 1. Scores higher with experience. Continue with importance to remember technical factors for common exams. |
| | | | | | 2020:4.73 | 2020 – Goal Met 1. Continue with importance of knowing technical factors. |
| | | | | | 2021: 4.76 | 2021 – Goal Met 1. Continue |

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| | | | | | <p>2022:4.76</p> <p>2023: 4.69</p> | <p>with importance of technique</p> <p>2022: - Goal Met 1. Students are more comfortable with setting technical factors. Continue to foster the importance of knowing technical factors before second clinical site.</p> <p>2023 – Goal Met 1. Students stayed fairly consistent with their scores from their first clinical semester. 2. Remind students the importance of knowing technical factors as they transition into the work force.</p> |
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| <p>3. Students will demonstrate essential skills and knowledge necessary to work effectively with other health care practitioners.</p> | <p>1. Clinical Student Behavioral Evaluation Form #7 (Cooperation/Work Attitude)</p> | <p>Students will score a 4.33 or greater on a scale of 5.</p> | <p>1st Year Students – Spring Semester</p> | <p>Clinical Coordinator</p> | <p>2024: 4.87</p> <p>2018: 4.28</p> <p>2019: 4.85</p> <p>2020: 4.85</p> <p>2021: 4.9</p> <p>2022: 4.83</p> <p>2023: 4.77</p> | <p>2024 – Goal Met</p> <p>1. Scores represent the students being in their second semester of clinicals. Continue to monitor.</p> <p>2018 – Goal not met</p> <p>1. More emphasis on team work during RAD 112Lab and RAD 122 Patient Care classes</p> <p>2019 – Goal Met</p> <p>1. Continue with emphasis on team work.</p> <p>2020 – Goal Met</p> <p>1. Continue to emphasize teamwork.</p> <p>2021: - Goal Met</p> <p>1. This class showed great work ethic</p> <p>2022: - Goal Met</p> <p>1. During RAD 112Lab class emphasize teamwork with the radiology team along with the same for other departments.</p> <p>2023:- Goal Met</p> <p>1. Emphasize to students how important a positive attitude is, smile and communicate with all health</p> |
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| | | | | | 2024: 4.77 | care professionals they work with. 2024 – Goal Met 1. Continue to emphasize teamwork during Lab classes so students are prepared for clinical |
| | 2.Clinical Student Behavior Evaluation Form # 13 Interpersonal relationship with peers and patients | Students will score a 4.33 or greater on a scale of 5. | 2 nd Year Students – Fall Semester | | 2018: 4.48 | 2018: Goal Met 1. Continue with emphasis on team work during summer semester before last clinical semester. |
| | | | | | 2019: 4.89 | 2019: Goal Met 1. Continue with emphasis on team work during labs. |
| | | | | | 2020: 4.85 | 2020 – Goal Met 1. Slightly lower percentage but not enough to worry about. 2. Continue to emphasize team work during labs. |
| | | | | | 2021: 5.0 | 2021 – Goal Met 1.This class scored the highest this category number in the past 5 years. 2.During the pandemic, which is when this class was at clinical (the beginning and after), communication and attitude was so important to which this class went above and beyond. 3.Use this score as an example when |

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| | | | | | | teaching students in lab and for clinicals. |
| | | | | | 2022:4.9 | 2022: - Goal Met 1. Continue to encourage teamwork in all areas of the clinic site. |
| | | | | | 2023: 4.8 | 2023:- Goal Met 1. Continue to stress the patient is our #1 priority 2. Stress the need for communication with patient 3. Show initiative with all technologist students are working with. |
| | | | | | 2024: 5.0 | 2024 – Goal Met 1. Great score! 100% continue the same with next class. |
| | | | First Year Students – Spring Semester | | 2018: 4.72 2019: 4.83 | 2018 – Goal Met 2019 – Goal Met Score higher, continue to emphasize strong work ethic and communication |
| | | | | | 2020:4.71 | 2020 – Goal Met 1.Score slightly lower, possibly due to pandemic clinical semester |
| | | | | | 2021:4.9 | 2021 – Goal Met 1. High score due to quality of students |
| | | | | | 2022:4.8 | 2022: - Goal Met 1. Great score for first clinical site. 2. Continue with same in RAD 112Lab class. |
| | | | | | 2023: 4.87 | 2023:- Goal Met |

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| | | | | | 2024: 4.83 | <ol style="list-style-type: none"> 1. Another great score for first clinic site 2. RAD 112Lab classes are working with students well <p>2024 – Goal Met</p> <ol style="list-style-type: none"> 1. Our Lab Instructors are some of the best and get the credit for students having high score. 2. Keep this in mind when choosing Lab Instructors for the fall semester. |
| | | | Second Year Students - Fall Semester | | 2018:4.82 2019: 4.88 | 2018 – Goal met 2019- Goal met 1.Scores remain high |
| | | | | | 2020:4.8 | 2020- Goal met 1. continue to emphasis strong work ethic and communication |
| | | | | | 2021:4.96 | 2021- Goal Met 1. Highest scores in past 4 years. Quality group of students |
| | | | | | 2022:4.9 | 2022: - Goal Met 1. Score improved from Spring to fall semester. Continue to foster good interpersonal communication. |
| | | | | | 2023: 4.84 | 2023:- Goal Met 1. Score slightly |

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| | | | | | 2024: 4.95 | <p>lower but still high. Continue to foster good interpersonal communication</p> <p>2024 – Goal Met</p> <ol style="list-style-type: none">1. The score is quite a bit higher than previous year.2. Shows there is a difference in personalities in students.3. Continue to monitor. |
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| 4. Students will indicate overall satisfaction with education from the program. | 1.End of program survey | 85% of students will have an "Excellent, Very Good or Good" education with the program. | Spring Semester | Program Director | <p>2017: 96%</p> <p>2018: 97%</p> <p>2019: 96%</p> <p>2020: 100%</p> | <p>2017 - Goal Met</p> <p>2018 - Goal Met</p> <p>2019 - Goal Met</p> <p>2020 - Goal Met</p> <p>1. 12 students participated in this Survey Monkey. This was during online learning due to Covid pandemic.</p> <p>2. of the 12 participants, 50% said excellent, 41.687% said Very good and 8.32% said Good.</p> |
| | | | | | 2021:90% | <p>2021 – Goal Met</p> <p>1. 20 students participated in this survey.</p> <p>2. 2 of the 20, 10% said excellent, 50% said Very good and 30% said Good. 10% stated Fair</p> |
| | | | | | 2022: 96% | <p>2022:- Goal Met</p> <p>1. 24 students participated in this survey.</p> <p>2. 14 of the 24, 58% said excellent, 37.5% said very good, and .08% said good.</p> |
| | | | | | 2023: 84% | <p>2023:- Goal Not Met</p> <p>1. 28 students participated in this survey</p> <p>2. 3 of the 28, 9% said Excellent, 39% said Very Good, 36% said Good, and 3 students or 9% said Fair.</p> <p>3. First time program has not met the benchmark, even</p> |

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| | | | | | 2024:94% | <p>though it's only by 1 percentage point.</p> <p>4. This class had numerous entitled students who thought the work should simply be handed to them and did not want to work for their grades.</p> <p>5. Rads Program Advisor was poor and told students their clinic sites would be within driving distance from Carbondale (which is not true)</p> <p>6. Chalk the score up to poor personalities and entitlement of students.</p> <p>2024 – Goal Met</p> <p>1. 34 students participated in the survey. 41% stated Excellent, 35% stated Very Good, 18% stated Good, .05%(2) stated Neutral and 2 students did not fill in this part of the survey.</p> <p>2. Great increase in</p> |
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| | 2.End of program survey | 90% of students will choose "Strongly Agree or Generally Agree" to better problem solving and critical thinking skills developed in the program. | | | <p>2021:95%</p> <p>2022: 96%</p> <p>2023:93%</p> | <p>score</p> <p>3. Different type of students.</p> <p>2021: - Goal Met</p> <ol style="list-style-type: none"> 20 students participated in this survey. 45% stated Strongly Agree, while 50% stated Generally Agree. <p>2022: - Goal Met</p> <ol style="list-style-type: none"> 24 students participated in this survey. 71% stated Strongly Agree, while 25% stated Generally Agree. <p>2023:- Goal Met</p> <ol style="list-style-type: none"> 28 students participated in this survey. 50% stated Strongly Agree, 43% stated Generally Agree, while 1 student, .03% said Neutral, and 1 student .03% said Generally Disagree. Poor mindset of what was expected of |
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| | | | | | 2024:88% | <p>students</p> <p>2024 – Goal Not Met</p> <ol style="list-style-type: none"> 34 students participated in the survey. 59% stated Strongly Agree, 35% stated Generally Agree, .05% stated Neutral, and 2 students did not answer this questions. Not change anything due to the 2 neutral votes, and with 2 not answering (they didn't turn the form over to do the back side. |
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| 5. Graduates will pass ARRT Radiography certification exam on first attempt. | 1.ARRT Certification Exam | 90% of students will pass certification exam on first attempt | Spring/Summer Semesters | Program Director | <p>2018 = 97%</p> <p>2019 = 100%</p> | <p>2018 – Goal Met</p> <ol style="list-style-type: none"> New Program Director and New Rad Instructors have helped to meet goal from 2016 to 2018. <p>2019 - Goal Met</p> <ol style="list-style-type: none"> Continue with |
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| | | | | | <p>2020 = 100%</p> <p>2021 = 100%</p> <p>2022: = 96%</p> <p>2023: = 93%</p> <p>2024:= 97%</p> | <p>Corectec and studies.</p> <p>2020 – Goal Met</p> <p>1. Continue with studies and Corectec.</p> <p>2021 – Goal Met</p> <p>1.Continue with Corectec and review.</p> <p>2.Looking into using Rad Tech Review</p> <p>2022: - Goal Met</p> <p>1. 1 Student failed with a score of 73% and passed the second time.</p> <p>2. Chose not to use Rad Tech Review due to cost.</p> <p>2023 – Goal Met</p> <p>1. Two students failed the first time</p> <p>2. Both students passed boards 2nd time to go on to Specialty</p> <p>2024 – Goal Met</p> <p>1. One students failed the first time</p> <p>2. Student passed boards on 2nd attempt.</p> |
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| | 2.ARRT Certification Exam | Students will score an 8.5 or better in section 3, Radiation Protection, on a scale of 10. | | | 2018 = 8.7 2019 = 8.8 2020 = 8.9 2021 = 9.0 2022 = 9.0 2023 = 8.7 2024 = 8.4 | 2018 – Goal Met 2019 – Goal Met 2020 – Goal Met 2021 – Goal Met 2022 – Goal Met 2023 - Goal Met 2024 – Goal Not Met 1. 4 students received a 7.6 on this category, with one student receiving a 6.3 and another student scoring a 6.3. 2. Believe the scores of these six individuals (one of the failed) was reason for not meeting goal. |
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Goal #2: Students will research topics in education, professionalism or health care relating to radiography.

| Outcome | Measurement Tool | Benchmark | Time Frame | Responsible Party | Results | Analysis |
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| 1. Students will demonstrate essential skills to plan and execute research on various pathology topics | 1.RAD 312 Radiation Pathology Class Oral presentation given on assigned pathology | Students will achieve an average score of 93% or above on assignment. | Spring Semester | Clinical Coordinator | 2019: 98% | 2019 - Goal Met 1. This assignment works very well for student research and as practice for oral presentations. |

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| | | | | | 2020: 100% | 2020 – Goal Met 1, This class had great oral presentation skills. 2. Continue with assignment. |
| | | | | | 2021: 100% | 2021 – Goal Met 1. Great oral presentations. The students seem to enjoy this project |
| | | | | | 2022: 99% | 2022: - Goal Met 1. Great oral presentations. Students enjoy sharing different pathologies. 1. Continue with assignment. |
| | | | | | 2023: Alicia | 2023 – Instructor passed away before we were able to get the scores for the project. |
| | | | | | 2024: Alicia | 2024 - Instructor passed away before we were able to get the scores for the project. |
| | 2. Students will research and make power point presentation slides on various body systems Implemented Spring 2020 | | | | 2020:89% | 2020 – Goal not met. Multiple students turned assignments in late which resulted in lower grades |
| | | | | | 2021:95% | 2021- Goal met. Reinforced deadlines and consequences |
| | | | | | 2022:100% | 2022 – Goal Met 1. Students did very well on |

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| | | | | | 2023: 99% | assignment. Very helpful to see students speak in front of fellow students. 2. Continue with assignment. |
| | | | | | 2024: 99% | 2023 – Goal Met 1. Continue with this research assignment, provides students to learn research skills 2024 - Goal Met 1. Research and presentations were excellent in front of the class! 2. Very helpful to learn to research a subject. |
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Goal #3: Students will evaluate the importance of professional development and growth within the profession.

| Outcome | Measurement Tool | Benchmark | Time Frame | Responsible Party | Results | Analysis |
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| 1. Students will choose an Advanced Modality to further their education and professional career. | 1.Radiography Program Application | 100% of students will enter a specialization. | Fall Semester | Program Director | 2018: 100% 2019: 100% 2020: 96% 2021: 100% 2022: 90% 2023: 92% 2024: 100% | 2018 – Goal Met. 2019 - Goal Met. 2020 – Goal not met 1. One student was offered a job at the clinic site she was at as a student and decided to take the job. 2021 – Goal Met 1. All students continued on for their fourth year to specialize. 2022 – Goal not met. 1. One student decided to stop at the RTR level to for financial reason. 2. One student decided to change careers. 2023 – Goal not met. 1. One student was in the army reserves and was called up for active duty. 2. One student chose not to continue and stopped at the associate degree RTR level. 2024 – Goal Met 1. Two students |

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| | 2. Will <u>Implement</u> for 2022, Graduates who do not choose an advanced modality will have employment within a Radiography profession post-graduation. | 100% of students who did not choose to continue with an Advanced Modality will have employment in the Radiography profession | Students to fill out Employment Survey during finals week of Spring semester. Employment should be within 6 months. | | 2022: 0% 2023: 0% 2024: 0% | <p>failed the boards the first time. 2. Passed boards the 2nd time, went on to specialty</p> <p>2022 – Goal not met 1. Neither of the two students who did not continue on to a specialty is working in the field. 2. Continue to gather data for further graduating classes.</p> <p>2023 – Goal Not Met 1. One student went into the military. 2. One student chose another profession.</p> <p>2024 – Goal Not Met 1. All students continued on in their specialty</p> |
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Goal #4: Students will communicate effectively.

| Outcome | Measurement Tool | Benchmark | Time Frame | Responsible Party | Results | Analysis |
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| 1. Students will use effective oral communication in a clinical setting. | 1. Lab Simulation Class (<i>Patient care/communication/</i> | 90% of students will receive an "Excellent/Exact" score in this category. | 1 st Year Students – Fall Semester | Lab Instructors/ Program Director | 2019: 100% 2020: 100% 2021: 100% | 2019 - Goal Met 2020: - Goal Met 2021 – Goal Met 1. Always have the |

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| | compassion/ respect) | | | | <p>2022:100%</p> <p>2023: 100%</p> <p>2024: 100%</p> <p>2018: 100%</p> <p>2019: 100%</p> <p>2020: COVID</p> | <p>students practice patient communication</p> <p>2022: - Goal Met</p> <ol style="list-style-type: none"> 1. Continue with the importance of communicating and showing respect with the patient before their first clinical semester. <p>2023 – Goal Met</p> <ol style="list-style-type: none"> 1. Continue with good lab instructors <p>2024 – Goal Met</p> <ol style="list-style-type: none"> 1. Great score for first semester of Lab class. 2. Continue to express to Lab Instructors how important communication with the patients is. <p>2018 – Goal Met</p> <p>2019 - Goal Met</p> <ol style="list-style-type: none"> 1. Continue to emphasize communication/compassion in Labs and Pt. Care class. <p>2020 – Due to the Covid Pandemic, we were unable to have Face to Face labs. As a substitute the students did the following projects:</p> <ol style="list-style-type: none"> 1. Each student did a written report for how they would position each projection, the CR, angle of tube, patient preparation, history questions, technical factors to be used, shielding. 2. Each student was given a Lab Final Paper with different patient |
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| | | | | | <p>scenarios. Each student wrote a paper about their journey as the technologist imaging the patient. A Rubric was made to grade the assignment. The 99% is the overall average of that assignment.</p> <p>2021: 100%</p> <p>2022:100%</p> <p>2023: 100%</p> <p>2024: 100%</p> | <p>2021 – Goal Met</p> <ol style="list-style-type: none"> 1. Have the students continue to practice patient communication <p>2022 – Goal Met</p> <ol style="list-style-type: none"> 1. Maintain importance of patient care and respect before last clinical semester. <p>2023 – Goal Met</p> <ol style="list-style-type: none"> 1. Students scored very high again. Continue with practices. <p>2024 – Goal Met</p> <ol style="list-style-type: none"> 1. Students have had one semester of clinical and understand how important Pt. Care and communication with the patient is. 2. Students carry that information into their Summer Lab Class. |
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| 1. cont. | 2.Clinical Student Behavior Evaluation Form Item #13. (<i>Patient Care and Rapport</i>) | Students will receive an average score of 4.0 or greater on a scale of 5.0 | 1 st Year Students – Spring Semester | Clinical Coordinator | 2019: 4.83 | 2019 - Goal Met 1. 1 st year scores continue to be above the benchmark. Continue with the importance of pt. care in Lab and Clinicals |
| | | | | | 2020:4.71 | 2020 – Goal Met 1. Due to Covid Pandemic students were only allowed first half of semester to attend clinical, score reflects this. |
| | | | | | 2021: 4.9 | 2021 – Goal Met 1. High scores. Continue to teach importance of patient care |
| | | | | | 2022:4.9 | 2022 – Goal Met 1. This score is staying consistent. Continue encouragement of pt. care during labs. |
| | | | | | 2023: 4.9 | 2023 – Goal Met 1. High scores continue from our students. Continue with stressing importance of patient care. |
| | | | | | 2024: 4.8 | 2024 – Goal Met 1. Communication and Pt. Care is taught during the fall Lab Class before students go out to clinic, continue to stress both of them during Labs. |
| | | Students will receive an average score of 4.5 or greater on a scale of 5.0 | 2 nd Year Students – Fall Semester | | 2018: 4.82 2019: 4.88 | 2018 – Goal Met 2019 - Goal Met 1. 2 nd year scores show a good increase in pt. care. Students |

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| | | | | | <p>2020: 4.8</p> <p>2021: 4.96</p> <p>2022:4.8</p> <p>2023: 4.8</p> <p>2024: 4.95</p> | <p>becoming more comfortable.</p> <p>2020 – Goal Met</p> <p>1. Score is still good but possibly reflect time at clinical setting due to Covid Pandemic.</p> <p>2021 – Goal Met</p> <p>1.Increase from last year. This class had good communication skills.</p> <p>2022 – Goal Met</p> <p>1. Score down slightly</p> <p>2023 – Goal Met</p> <p>1. Good score but a couple of students were slightly down in this category which could cause this decrease from the fall. (4.9)</p> <p>2. Continue to stress communication with patients</p> <p>2024 – Goal Met</p> <p>1. Fantastic score from students for their last clinical before graduating!</p> |
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| 2. Students will use effective oral and written communication skills. | 1.RAD 232 Oral Report | Average Score of at least a 90%. | Summer Semester | Program Director | 2019: 94% | 2019 – Goal Met 1. Good project. Will repeat next year. |
| | | | | | 2020: 99% | 2020 – Goal Met 1. Students continue to thrive with this assignment. |
| | | | | | 2021:98% | 2021 - Goal Met 1. This is a great project for students to speak in front of others and become more comfortable speaking. |
| | | | | | 2022: 100% | 2022: - Goal Met 1. Students enjoyed speaking about their subject in front of the class. |
| | | | | | 2023: 96% | 2023 – Goal Met 1. Always enjoyable to hear the research the students do for this project! |
| | | | | | 2024: 98% | 2024 – Goal Met 1. Gave the categories more points a total of 75 instead of 50. 2. Will continue with this amount of points – students do very well with this research. |
| | 2.RAD 352 Oral Report on a radiography specialization. | Average Score of at least 93%. | Spring Semester | Program Director | 2018:95% | 2018 – Goal Met 1. This is a group project with all members of the group orally giving their part. |
| | | | | | 2019:94% | 2019 – Goal Met 1. Continued |

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| | | | | | <p>2020:96%</p> <p>2021:96%</p> <p>2022: 100%</p> <p>2023: 99%</p> <p>2024: 99.5 or 100%</p> | <p>group project. Slightly lower score due to students "reading" the part.</p> <p>2020 – Goal Met 1. Stressed to students to know their part very well as so not to "read" their part.</p> <p>2021 – Goal Met 1. Students are doing great with this oral project, speaking In front of the class.</p> <p>2022 – Goal Met 1. This class had excellent speaking skills and were not afraid to speak in front of others.</p> <p>2023 – Goal Met 1. Continue with this research report. Helpful to students to know more about radiography specializations</p> <p>2024 – Goal Met 1. This class really enjoyed the research and learning more about specialties.</p> |
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| | | | | | | Good oral reports. |
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Goal #5: Students will apply skills in Critical Thinking and Problem Solving.

| Outcome | Measurement Tool | Benchmark | Time Frame | Responsible Party | Results | Analysis |
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| 1. Students will demonstrate critical thinking skills in a clinical setting. | 1.Clinical Student Behavior Evaluation Form Item #4. (<i>Performance under pressure</i>) | Students will receive an average score of 4.0 or above on a scale of 5. | 1 st Year Students – Spring Semester. | Clinic Coordinator/ Program Director | 2018: 4.06 2019: 4.12 2020: 4.35 2021: 4.6 2022:4.5 2023: 4.4 | 2018 – Goal Met 2019 - Goal Met 1. Look for increase in score for 2 nd semester. 2020 – Goal Met 1. Look to increase student scores for 2 nd clinical semester. 2021 – Goal Met 1.High scores for 1 st clinical rotation 2022 – Goal Met 1. Score is good with this being students first clinic semester. 2. Continue to encourage students and work on scenarios where the students will be under pressure to see they handle the situation. 2023 – Goal Met 1. Consistent with previous 1 st year students for “under pressure” circumstances. Continue to monitor. |

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| | | | 2 nd Year Students – Fall Semester | | 2024: 4.5 | 2024 – Goal Met 1. Provide patient scenarios where the students will have to think a little faster during Lab class in fall. |
| | | | | | 2018: 4.31 2019: 4.71 | 2018 – Goal Met 2019 - Goal Met 1. Score increased as students are more acquainted with work flow. |
| | | | | | 2020: 4.63 | 2020 – Goal Met 1. Score increased as students became more acquainted with work flow. |
| | | | | | 2021: 4.8 | 2021: Goal Met 1.Students more comfortable in clinical setting |
| | | | | | 2022:4.6 | 2022: Goal Met 1. Continue to provide students with types of scenarios where they would need to work thru them under pressure. |
| | | | | | 2023: 4.6 | 2023 – Goal Met 1. Increase in score as a second year. Continue to monitor. |
| | | | | | 2024: 4.8 | 2024 – Goal Met 1. Continue with patient scenarios |

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| | 2.Clinical Student Behavior Evaluation Form Item #5. (<i>Judgement and critical thinking</i>) | Students will receive an average score of 4.0 or above on a scale of 5. | 1 st Year Students – Spring Semester | | <p>2018: 4.16 2019: 4.26</p> <p>2020: 4.5</p> <p>2021:4.7</p> <p>2022:4.8</p> <p>2023: 4.66</p> <p>2024: 4.6</p> | <p>during Lab class.</p> <p>2. One semester of clinic gives the students more confidence in this category.</p> <p>2018 – Goal Met 2019 - Goal Met 1. Look for increase in score for 2nd semester. 2020- Goal Met 1. Look for increase in score for 2nd semester of clinical. 2021 – Goal Met 1.Increase from previous years. 2022 – Goal Met 1. Slight increase from previous year 2. Keep encouraging this thru RAD Labs 2023 – Goal Met 1. Slightly lower than the previous year. 2. Give clinic scenarios to students during lab to encourage critical thinking. 2024 – Goal Met 1. Students are not as quick to judge or recognize when a patient's exam</p> |
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| | | | 2 nd year Students – Fall Semester | | <p>2018: 4.27 2019: 4.67</p> <p>2020: 4.8</p> <p>2021: 4.8</p> <p>2022:4.7</p> <p>2023: 4.63</p> <p>2024: 4.93</p> | <p>needs to be completed in a "non-normal" way.</p> <p>2. Continue to discuss this is Lab class during the fall.</p> <p>2018 – Goal Met 2019 - Goal Met 1. Score increased as students are more acquainted with work flow.</p> <p>2020 – Goal Met 1. Score increased as students became more established at clinic site.</p> <p>2021 – Goal Met 1. Students more confident in abilities 2nd rotation</p> <p>2022 – Goal Met 1. Would like to see second semester score higher than first semester, though they are very close</p> <p>2023 – Goal Met 1. Continue to monitor. 2. Continue to provide clinic scenarios to help with critical thinking</p> <p>2024 – Goal Met 1. Scores represent how</p> |
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| | | | | | | <p>the students are more competent in “non normal” exams.</p> <p>2. Continue teaching this during summer Labs.</p> |
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| 2. Students will evaluate radiographic images for appropriate technical factor and proper positioning | 1. Image Critique Evaluation Form (<i>Technical factors and Positioning</i>) | Students will receive an average score of 85% or greater. | 1st Year Students – Spring Semester. | Clinical Coordinator | <p>2019: N/A</p> <p>2020: 98%</p> | <p>2019 - N/A</p> <p>1. Uncertain why clinical coordinator did not perform this evaluation during the fall semester for the 2nd years. Unable to ask her due to her retirement.</p> <p>2. Believe this is a helpful tool to compare the results between 1st and 2nd semester clinical students.</p> <p>3. Will continue in 2019.</p> <p>2020 – Goal Met</p> <p>1. This is a very helpful tool for students to critique their work.</p> <p>2. Students tend to</p> |
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| | | | | | <p>2021:100%</p> <p>2022:99%</p> <p>2023: 100%</p> <p>2024: 98.8%</p> | <p>be proud of showing their exams. Great motivation!</p> <p>2021 – Goal Met</p> <p>1.Site visit sessions included discussion of technique and positioning at respective clinical site</p> <p>2022 – Goal Met</p> <p>1. Added in question on what EI number range is over exposed or under exposed</p> <p>2023 - Goal Met</p> <p>1. Continue memorizing technical factors.</p> <p>2. Continue to encourage the students to know the EI numbers for clinic site.</p> <p>3. Continue asking students what certain positions are on the images and how do they know this.</p> <p>2024 – Goal Met</p> <p>1. Remind students to put their names on</p> |
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| | | | 2 nd Year Students – Fall Semester. | | <p>2018: N/A 2019: 0%</p> <p>2020:100%</p> <p>2021: 100%</p> <p>2022:100%</p> <p>2023: 100%</p> | <p>their Critique forms and to turn them in on time. 2. Reasons above for lower score.</p> <p>2018: N/A 2019: Goal not met 1. These verbal critique sessions were completed with all students in the clinical setting. No forms were filled out. 2. Will continue with % scores in the Spring.</p> <p>2020 – Goal Met 1. Students are very proud of showing their work.</p> <p>2021 – Goal Met 1,. Site visit sessions included discussion of technique and positioning at respective clinical site</p> <p>2022 – Goal Met 1. Students new the EI numbers well after discussing them in the spring</p> <p>2023- Goal Met 1. Great project for students to recognize EI number ranges and what they</p> |
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| | 2.Pathology Research project during clinical | | 1st Year Students – Spring Semester. | | <p>2024: 100%</p> <p>2018: N/A 2019: N/A 2020: N/A</p> <p>2021:100%</p> <p>2022:100%</p> <p>2023:100%</p> | <p>mean.</p> <p>2. Great project for reviewing anatomy positions.</p> <p>2024 – Goal Met</p> <p>1. Students feel comfortable in discussing anatomy, EI ranges and technical factors due to final clinical semester.</p> <p>2. Continue sessions.</p> <p>2018: N/A 2019: N/A 2020: Clinic ended due to pandemic. Data incomplete 2021: Implemented during pandemic in lieu of face to face visits. Discussed on zoom calls. Students enjoyed this project. Factors such as exposure index, positioning and technique requires. Plan to continue as it is a good learning tool 2022: Goal Met</p> <p>1. Excellent teaching tool for students to learn correct technical factors and the correct EI ranges to watch for</p> <p>2023 – Goal Met</p> <p>1. Continue with students,</p> |
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| | | | 2nd Year Students – Fall Semester. | | <p>2024: 100%</p> <p>2018: N/A 2019: N/A 2020:100% 2021:100%</p> <p>2022:100%</p> <p>2023: 100%</p> <p>2024: 100%</p> | <p>great learning tool</p> <p>2024 – Goal Met 1. Students really like researching pathologies and what positions are needed for the pathology.</p> <p>2018: N/A 2019: N/A 2020: Goal met 2021: Goal met- Continue with the project as an emphasis on proper exposure technique. 2022: - Goal met 1. Continue with having students be aware of technical factors along with EI range.</p> <p>2023 – Goal met 1. As second years, students are more comfortable and choose a pathology and what technical factors, EI range and positions need to be used.</p> <p>2024 - Goal met 1. This project continues to make the students more aware of what</p> |
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| | | | | | | technical factors are used for each part and to look for the EI range to know if image is overexposed, underexposed or in range. |
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