

COPIAH-LINCOLN COMMUNITY COLLEGE
MEDICAL RADIOLOGIC TECHNOLOGY
PROGRAM ASSESSMENT

SPRING 2021 – FALL 2021

Goal # 1 Students will demonstrate clinical competence with respect to program level.

| Outcome | Measurement Tool | Benchmark | Time Frame | Party Responsible | Results | Action |
|--|---|---|-------------------------------------|----------------------|--|---|
| 1.1 Students will demonstrate retention of knowledge on exam competency evaluations | 1.1a Procedures Final Surgery Comp. Evaluation | 90% of students will score 80% or above on final surgery competency evaluations | Spring RGT 2157 Clinical V | Clinical Coordinator | 16 out of 16 students (100%) scored 80% or above on final surgery competency evaluations with an average score of 100. | Clinical Instructors and faculty will continue to encourage the students to volunteer for surgical procedures and utilize quality techniques. Students will be encouraged to master proper manipulation of c-arm and other surgical equipment. |
| | 1.1b Clinical Final Competency Evaluation | 100% of students will score 90% or above on 3 final competency evaluations | Spring RGT 2157 Clinical Ed V | Clinical Coordinator | 16 out of 16 students (100%) scored 90% or above on 3 final competency evaluations with an average score of 100. | Clinical instructors and faculty will encourage students to maintain competence in all procedures by reviewing exams not often performed and volunteering for exams that are seen rarely or that the student feels he/she is not competent performing. Clinical Coordinator will seek input from clinical instructors on new ways to access competency on procedures. |

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| | 1.1c Final Clinical Exit Evaluation 2020 | 100% of graduates will score a 4 or higher on the overall clinical ability rating at program completion of the Final Clinical Exit Evaluation | Spring RGT 2157 Clinical V | Clinical Coordinator | 16 out of 16 students (100%) scored a 4 or higher on the overall rating of work preparedness at program completion on the Final Clinical Exit Evaluation. | Will continue to use this tool but will assess the clinical ability rating instead of the overall rating. |
| 1.2 Students will be able to make procedural adjustments for exams | 1.2a Clinical Competency Workbook | 100% of students will score 90% or above on 3 trauma evaluations | Fall RGT 2147 Clinical IV | Clinical Coordinator | | |
| | 1.2b Clinical Geriatric Evaluation Form | 100% of students will score 90% or above on geriatric evaluations | Fall RGT 2147 Clinical IV | Clinical Coordinator | | |

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| | 1.2c Pediatric Procedure Performance Evaluation Form | 100% of students will average a minimum of 5 pts. on a 10 point scale on item #8 relating to pediatric procedural adjustments. | Spring RGT 1124 Clinical II | Clinical Coordinator | 5 out of 9 students (56%) of students averaged 5 pts on a 10 pt scale on item #8 relating to pediatric procedural adjustments. | Will continue to monitor; lab activities will be implemented to incorporate more pediatric procedures and adjustments that must be made for varying pediatric age groups. Students will be tested on age specific care and communication skills. |
| 1.3 Students will practice appropriate radiation safety measures | 1.3a Radiation Safety Test | 100% of students will pass radiation safety test with a minimum of 80% on the first try before entering the clinical environment. | Fall RGT 1312 Principles of Radiation Protection | Didactic Instructor | | |

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| | 1.3b Repeat Exposure Report from Trajecsys | 100% of students will maintain less than a 5% repeat rate for general radiography and less than 3% for pediatric radiography | Fall RGT 2147 Clinical IV | Didactic Instructor | | |

Goal 2: Students will demonstrate effective communication skills.

| Outcome | Measurement Tool | Benchmark | Time Frame | Party Responsible | Results | Action |
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| 2.1 Students will demonstrate effective written communication skills. | 2.1a Pathology Written Rubric Evaluation | 100% of students will average 15 of 20 points on written communication section of pathology case report. | Spring RGT 2922 Pathology | Program Director | Goal met. 16 of 16 (100%) averaged 15 of 20 points on written communication section of pathology case reports. | Continue to monitor. Students will be asked to turn in certain parts of their paper all throughout the semester to ensure they are on the correct path with written communication. |

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| | 2.1b Harmonize on Canvas | 100% of students will score 100 on written communication of case studies through Harmonize on Canvas (online). | Fall RGT 2132 Ethical and Legal | Program Director | | |
| 2.2 Students will demonstrate effective oral communication skills. | 2.2a Clinical Performance Evaluation | 100% of students will score an 8 or above on #13 of the 3rd clinical performance evaluation "utilizing the AIDET framework when communicating with patients". | Fall RGT 1114 Clinical Ed I | Clinical Coordinator | | |
| | 2.2b Rubric Evaluation that includes oral communication skills | 100% of students will average 15 of 25 points on written communication section of ethics project. | Fall RGT 2132 Ethical and Legal | Program Director | | |

Goal #3: Students will demonstrate effective critical thinking and problem solving skills.

| Outcome | Measurement Tools | Benchmark | Time Frame | Party Responsible | Result | Action |
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| 3.1 Students will evaluate images for appropriate positioning and image quality. | 3.1a RGT 2533 Image Critique Test Grades | 100% of students will average 80% or better on critique exams in procedures lab | Fall RGT 2533 ProcIII | Clinical Coordinator | | |
| | 3.1b RGT 2533 Procedures Test | 80% of students will correctly identify radiographic structure on item 145on procedures final | Fall RGT 1510 Proc 1 | Program Director | | |

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| 3.2 Students will apply Imaging Principles knowledge to adjust technical factors. | 3.2a Imaging Principles test | 80 % of students will correctly calculate KVP to double density on item #54 of unit 5 Brightness and Contrast exam. | Fall RGT 1323 Principles Of Exposure And Image Production | Didactic Instructor | | |
| | 3.2b Imaging Principles test | 80% of students will correctly calculate new mAs for SID changes on item #59 of Unit Exam 5 on Brightness and Contrast | Fall RGT 1323 Principles of Exposure and Image Production | Didactic Instructor | | |
| 3.3 Students will apply digital imaging principles. | 3.3a Digital Imaging Principles Test | 80% of students will correctly identify the affect digital filters have on the image on | Spring RGT 1333 Digital Image Acquisition and Display | Didactic Instructor | 7 of 10 (70%) correctly identified the affect digital filters have on the image on item #41 of Exam 2. | Benchmark not met. The plan is to include additional image quiz review of the affect digital filters have on the image to improve percentage of students who correctly answer item#41 of Unit Exam 2. |

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| | | item #41 of Unit Exam 2. | | | | |
| | 3.3.b Digital Imaging Principles | 80% of students will identify the topology network connected to a central hub or switch on item #52 of Module 4 Test. | Spring RGT 1333 Digital Image Acquisition and Display | Didactic Instructor | 9 of 10 (90%) correctly identified the topology network connected to a central hub or switch on item #52 of Exam 4. | Benchmark met. The additional review of topology networks will continue through quiz review for Exam 4. |
| | 3.3c Record of MSRT Submission of Scientific Exhibits | 100% Students will prepare exhibits according to MSRT guidelines and will be encouraged to submit exhibits to MSRT Conference in the Fall. | Spring RGT 1333 Digital Image Acquisition and Display | Didactic Instructor | 10 of 10 (100%) of students prepared exhibits according to MSRT guidelines and were encouraged to submit exhibits to MSRT Conference in the Fall 2021. | Benchmark met. The students will continue to prepare exhibits according to MSRT guidelines in the Spring and be encouraged to submit to MSRT Conference. |

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Goal #4 Students will demonstrate professionalism.

| Outcome | Measurement Tools | Benchmark | Time Frame | Party Responsible | Result | Action |
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| 4.1 Students will demonstrate knowledge of professional organizations. | 4.1a Professional Meeting Records of Attendance (SSRT Meeting) | 75% of students will participate in a professional meeting | Fall | Program Director | Benchmark met. Students met for a SSRT meeting. 9 of 9 (100%) attended the meeting. Minutes and attendance were taken. Different topics were discussed, such as fundraising and MSRT conference. | Continue to monitor. Will assess the COVID situation again next year to see about attending MSRT conference. Students met for a SSRT meeting with attendance and minutes taken. |
| | 4.1b Chapter 1 Ethics Test | Students will score 95% on chapter 1 Ethics Test on professional organizations and what they do. | Fall RGT 2132 Ethical and Legal | Program Director | Benchmark not met. 5 of 9 (56%) students made a 95 or higher on Chapter 1 Test pertaining to professional organizations, the standards, and the rules that govern the organizations. | Continue to monitor. A worksheet was given along with print outs for what the organizations are and the rules that govern them. Will work more on this by doing an extra review/test next year. |

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| 4.2 Students will demonstrate ethical behavior. | 4.2a Clinical Evaluation | 100% of students will score 10 points on the professional responsibility section of the Clinical evaluation Form. | Fall RGT 2147 Clinical IV | Clinical Coordinator | | |
| | 4.2b Work Ethic Grade | Students will score 95% or above on final work ethic grade. | Fall RGT 2132 Ethical and Legal | Program Director | | |

Goal #5: Students will graduate with professional competence that meets the needs of the community.

| Outcome | Measurement Tool | Benchmark | Time Frame | Party Responsible | Result | Action |
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| 5.1 Graduates will be prepared to pass the ARRT exam. | 5.1a ARRT Exam Results 2021 grads | 90% of graduates will pass the registry on the 1st attempt | Spring | Program Director | 2020 Five year pass rate -- 94% with one remaining student to take registry Will have to recalculate when student takes registry. 2019 Five year pass rate— 95% 2018 Five year pass rate ---95% 2017 Five-year pass rate 96% 2021- 14 of 16 (88%) 2020 11 of 12 (92%)- one remaining student to take registry. There were 13 graduates. 2019 15 of 16 (94%) 2018 – 11 of 12 (92%) 2017 – 15 of 15 (100%) 2016 – 13 of 14 (93%) 2015 – 15 of 16 (94%) 2014 – 8 of 8 (100%) 2013 -15 of 16 (94%) 2012- 18 of 18 (100%) 2011 - 13 of 14 (93%) 2010 – 22 of 22 (100%) 2009 – 21 of 21 (100%) 2008 – 18 of 18 (100%) | 16 graduated and 14 of 16 (88%) passed on the first attempt. 15 of 16 passed on the second attempt. |

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| <p>5.2 Students will satisfactorily complete the program</p> | <p>5.2a Enrollment Report 2021 grads</p> | <p>70% of annual graduating cohorts will satisfactorily complete the program</p> | <p>Spring</p> | <p>Program Director</p> | <p>2021- 16 of 20 or 80% 2020- 14 of 15 or 93% 2019 -16 of 19 or 80% 2018 12 of 19 or 63% 2017 15 of 20 or 75% 2016 14 of 21 or 67% 2015 16 of 21 or 76% 2014 8 of 19 or 42% 2013 16 of 20 or 80% 2012 18 of 20 or 90% 2011 14 of 20 or 70% 2010 22 of 23 or 96% 2009 21 of 23 or 91% 2008 21 of 22 or 92% 2007 21 of 23 or 91%</p> | <p>Continue to monitor. 16 of 20 students (80%) completed the program and graduated in May 2021.</p> |
| <p>5.3 Graduates will attain employment in a related field within 1 year of graduation.</p> | <p>5.3a Enrollment Report/Graduate Follow-up Report 2020 grads</p> | <p>75% of graduates over 5 years will be employed within one year of graduation</p> | <p>Summer</p> | <p>Program Director</p> | <p>Benchmark met. 12 of 13 (92%) of graduates were employed within one year</p> | <p>Continue to monitor. 12 of 13 (92%) of graduates were employed within one year of graduation.</p> |

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| 5.4 Graduates will have satisfactory entry level work skills. | 5.4a Employer Survey 2020 grads | Employers will rate graduates at a level of good (3) or very good (4) on a scale of 0-4 on overall performance | Summer | Program Director | Benchmark not met. 10 of 11 (91%) rated graduates at a level of good (3) or very good (4) for overall performance. 1 of 11 (.09%) rated the graduate at a 2 or 1 on a scale of 0-4. 7 of 11 (64%) rated the graduate at a 4 on a scale of 0-4. 3 of 11 (27%) rated the graduate at a 3 on a scale of 0-4. | Continue to monitor. Good return rate of 100%. The employers were emailed the surveys. 11 of 11 employers returned the survey. |
| | 5.4b Employer Survey 2020 grads | 90% of employers responding will indicate graduates display good (3) or very good (4) on work attitude | Summer | Program Director | Benchmark met. 10 of 11 (91%) rated graduates at a level of good (3) or very good (4) on work attitude. 2 of 11 (.18%) rated the graduate at a 3 on a scale of 0-4. 8 of 11 (73%) rated the graduate at a 4 on a scale of 0-4. 1 of 11 (.09%) rated the graduate at a 1 on a scale of 0-4. | Continue to monitor. Good return rate of 100%. The employers were emailed the surveys. 11 of 11 employers returned the survey. |
| 5.5 Graduates will feel prepared for work / | 5.5a Alumni Survey 2019 grads | 75% of responding alumni will rate item # 19; " Overall the program | Summer | Program Director | Benchmark met. 5 of 5 (100%) returned surveys rated the program on item #19 at 3 or above. 5 of 5 (100%) rated the program at a 4 on a 1-4 scale. | Return rate of 31%. 5 of 16 graduates returned the evaluation. Will try to get a better return rate next year. Will remind the |

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| continuing education | | prepared me for work experiences" at 3 or above on a scale of 1-4 | | | | graduates that they should be expecting an alumni survey after they graduate. |
| | 5.5b Graduate Follow-Up Form 2021 grads | 10% of graduates will continue their Education | Summer | Program Director | Benchmark met. 3 of 16 or 19% of graduates continued their education | Continue to monitor. 3 students (19%) have decided to continue their education after graduation. Will continue to discuss continuing education with graduates. |
| | 5.5c Graduate Program Survey 2021 grads | 100% of graduates will rank overall effectiveness of the program at a 3 or above on a scale of 1-4 | Fall | Program Director | The program evaluation was conducted and 16 of 16 (100%) of students rated the program with a 3 or above. | Comments on the evaluation were to provide updated equipment to effectively teach. As of August 2021, new equipment was installed in the lab. See evaluations for details |