

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.

	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	8 out of 9 students (89%) scored 90% or above on 3 trauma evaluations.	Goal not met because 1 student only performed two (2) trauma checkoffs this semester. We will continue to assess the trauma evaluations to ensure that students are learning to make adjustments for those patients that require additional projections or just a little more maneuvering to achieve an optimal and diagnostic image.
	1.2b Clinical Geriatric Evaluation Form	100% of students will score 90% or above on geriatric evaluations	Fall RGT 2147 Clinical IV	Clinical Coordinator	9 out of 9 students (100 %) scored 90% or above on geriatric evaluations. The average score was 99.6.	Goal met. Will continue to monitor but will look for an additional tool or increasing the number of geriatric checkoffs required during the semester.

	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	21 of 21 students (100%) passed the radiation safety test with a minimum of 80% on the first try before entering the clinical environment.	Will continue to monitor. To help ensure preparation of students for clinical radiation safety.

	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	9 of 9 students (100%) maintained less than a 5% repeat rate for general radiography and less than 3% for pediatric radiography.	The students have met this goal for several years. In the Fall 2022 assessment, a new assessment that will address technical setting and “dose creep” with the digital radiology.

**Goal 2: Students will demonstrate effective communication skills.**

Outcome	Measurement Tool	Benchmark	Time Frame	Party Responsible	Results	Action
2.1 Students will demonstrate effective written communicati on skills.	2.1a Pathology Written Rubric Evaluation	100% of students will average 15 of 20 points on written communication section of	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.

		pathology case report.				
	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	Benchmark met. 9 of 9 (100%) of students scored 100 on written communication of case studies through Harmonize on Canvas (online).	Continue to monitor written communication skills through Harmonize next year and discuss in class as well. Will set a deadline to answer case studies by to make sure everyone answers them on time.
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	Benchmark met. 9 out of 9 (100%) students scored an 8 or above on #13 of the 3 <sup>rd</sup> clinical performance evaluation "utilizing the AIDET framework when communicating with patients."	Continue to monitor communication through the clinical performance evaluation. Will also begin to evaluate oral communication in the spring by evaluating the oral presentation skills of the students writing and presenting research papers in the spring.
	2.2b Rubric Evaluation that includes oral	100% of students will average 15 of 25 points on oral	Fall RGT 2132 Ethical and Legal	Program Director	Benchmark met. 9 of 9 (100%) of students averaged 15 of 25 points on oral communication section of the ethics project.	Continue to monitor. Would like for students to help evaluate each other's projects next year

	communication skills	communication section of ethics project.				and incorporate that into the final project grade.
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**Goal #3: Students will demonstrate effective critical thinking and problem solving skills.**

Outcome	Measurement Tools	Benchmark	Time Frame	Party Responsible	Result	Action
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 Proc III	Clinical Coordinator	Benchmark met. 9 out of 9 students averaged an 80% or above on critique exams in Procedures III.	Will continue to incorporate the critique tests into lab. The use of the critique tests in the lab also improved the students' grades on their unit tests. Seems to be more beneficial to students than critique in the hospital.
	3.1b RGT 2533 Procedures Test	80% of students will correctly identify	Fall RGT 1510 Proc 1	Program Director	Benchmark not met. (10 of 14) 71% of students identified the structure correctly on item 30 on the final exam. 29% identified the structure incorrectly.	Will continue to monitor. Will review over structures more in class lecture and in lab through image critique and worksheets.

		radiographic structure on item 30 on procedures final				
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/half brightness level on item #54 of Unit Exam #5 on Brightness and Contrast.	Fall RGT 1323 Principles Of Exposure And Image Production	Didactic Instructor	14 of 15 (93%) correctly calculated the kVp to double density/half brightness level on item #54 of Unit Exam #5 on Brightness and Contrast.	Students have done well with calculating adjustment in kVp to double exposure at receptor. In the 2022 assessment, this assessment can replaced with students understanding of Exposure Index values. The craft committee meeting Fall 2021 minutes include documentation of the clinical affiliates' recommendations.
	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	12 out 15 (80%) correctly calculated the new mAs for SID changes on item #59 of Unit Exam #5 on Brightness and Contrast	Continue to monitor.



<p>3.3 Students will apply digital imaging principles.</p>	<p>3.3a Digital Imaging Principles Test</p>	<p>80% of students will correctly identify the affect digital filters have on the image on item #41 of Unit Exam 2.</p>	<p>Spring RGT 1333 Digital Image Acquisition and Display</p>	<p>Didactic Instructor</p>	<p>7 of 10 students (70%) correctly identified the affect digital filters have on the image on item #41 of Exam 2.</p>	<p>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.</p>
	<p>3.3.b Digital Imaging Principles</p>	<p>80% of students will identify the topology network connected to a central hub or switch on item #52 of Module 4 Test.</p>	<p>Spring RGT 1333 Digital Image Acquisition and Display</p>	<p>Didactic Instructor</p>	<p>9 of 10 (90%) correctly identified the topology network connected to a central hub or switch on item #52 of Exam 4.</p>	<p>Benchmark met. The additional review of topology networks will continue through quiz review for Exam 4.</p>
	<p>3.3c Record of MSRT Submission of Scientific Exhibits</p>	<p>100% Students will prepare exhibits according to MSRT guidelines and will be encouraged to submit exhibits to MSRT Conference in the Fall.</p>	<p>Spring RGT 1333 Digital Image Acquisition and Display</p>	<p>Didactic Instructor</p>	<p>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.</p>	<p>Benchmark met. The students will continue to prepare exhibits according to MSRT guidelines in the Spring and be encouraged to submit to MSRT Conference.</p>

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**Goal #4 Students will demonstrate professionalism.**

Outcome	Measurement Tools	Benchmark	Time Frame	Party Responsible	Result	Action
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	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

		organizations and what they do.				work more on this by doing an extra review/test next year.
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	Benchmark not met. 8 out of 9 (89%) students scored 10 points on the professional responsibility section of the clinical evaluation form.	1 out of 9 (11%) students scored a five under "accepting constructive criticism". That student was brought in and counseled. Will continue to monitor.
	4.2b Work Ethic Grade	Students will score 95% or above on final work ethic grade.	Fall RGT 2132 Ethical and Legal	Program Director	Benchmark met. 9 of 9 (100%) of students scored 95 or above on final work ethic grade.  7 students scored 100. 1 student scored 98. 1 student scored 95.	Continue to monitor. Would like to increase score to 97% next year for final work ethic grade.

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**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
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%)	16 graduated and 14 of 16 (88%) passed on the first attempt.  15 of 16 passed on the second attempt.

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					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%)	
5.2 Students will satisfactorily complete the program	5.2a Enrollment Report 2021 grads	70% of annual graduating cohorts will satisfactorily complete the program	Spring	Program Director	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%	Continue to monitor. 16 of 20 students (80%) completed the program and graduated in May 2021.
5.3 Graduates will attain employment in a related field within 1 year of graduation.	5.3a Enrollment Report/Graduate Follow-up Report 2020 grads	75% of graduates over 5 years will be employed within one year of graduation	Summer	Program Director	Benchmark met. 12 of 13 (92%) of graduates were employed within one year	Continue to monitor. 12 of 13 (92%) of graduates were employed within one year of graduation.

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.

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5.5 Graduates will feel prepared for work / continuing education	5.5a Alumni Survey 2019 grads	75% of responding alumni will rate item # 19; " Overall the program prepared me for work experiences" at 3 or above on a scale of 1-4	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 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