Mississippi Delta Community College Outcomes Assessment Plan Radiologic Technology Program AY23

Revised 7/2023

Student Learning Outcomes	Measurement Tools	Timeframe –	Benchmark-	Actual Data Results	Past 3 – 5 year	rs of Data R	Results
1.1 The student will apply technical skills without guidance.	Trajecysy- Final Evaluation Question 1 Clinical III & Clinical V	Measured end of summer semester (clinical III) and Spring semester (Clinical V)	students will score a 3.8 or higher (5 point scale)	n-11 CIII 100% of student scored above 3.8 n-9 CV 100% of students score a 3.8 or higher	Year 2016/2017 2017/2018 2018/2019 2019/2020 2020/2021 2021/2022 2022/2023	4.41 4.47 4.34 4.28 4.38 4.08	Clinical V 4.95 4.91 4.66 5.0 4.66 4.66 4.61
	Digital Imaging- Develop CR & DR technique chart lab	Measured 1 st year spring semester	students will score a 80 or higher on the lab exercise	n-15 12 of 15 made a 80 or higher, 3 did not	Year 2016/2017 2017/2018 2018/2019 2019/2020 2020/2021 2021-2022 2022/2023	Score 92% 100% 90% 86 % 88 % 100% 80%	
1.2 The student will access patient's needs for emotion and comfort	Trajecysy- Room Evaluation Question 4 patient care section Clinical III	Measured in the 1st year - summer semester	students will score a 3.7 or higher (4 point scale)	n-11 100% of students scored a 3.7 or higher	Year 2016/2017 2017/2018 2018/2019 2019/2020 2020/2021 2021/2022 2022/2023	Clinica 4.0 4.0 4.0 4.0 4.0 3.91 3.97	ıl III

Т	Trajecysy- Room	Measured in the	students will score a	Goal met	Year	Clinical V	
E	Evaluation	2 nd year –spring	3.7 or higher(4.0		2016/2017	3.95	
Q	Question 4 patient	semester	scale)	n-9	2017/2018	4.0	
	eare section			100% scored a 3.7 or higher	2018/2019	4.0	
C	Clinical V				2019/2020	4.0	
					2020/2021	3.99	
					2021/2022	4.0	
					2022/2023	4.0	

Student Learning Outcome 1.1

Analysis: Include key findings, 5-year trending comparison, steps to take to enhance student learning

Goal 1, SLO 1 Measurement tool 1: (Clinical III room evaluation question 4, *student will be able to apply technical factors without guidance*) benchmark for the class of 2024 was met with Faculty are concerned that clinical preceptor and radiology staff may not be grading students according to their skills. Faculties have spoken to clinical preceptors about being too lenient and not grading students according to their performance

Goal 1, SLO 1 Measurement tool 1: (Clinical V room evaluation question 4, *student will be able to apply technical factors without guidance*) benchmark for the class of 2023 was met with all 9 students scoring a 3.8 or higher on evaluation. Faculty are concerned that clinical preceptor and radiology staff may not be grading students according to their skills. Faculties have spoken to clinical preceptors about being too lenient and not grading students according to their performance.

Goal 1, SLO 2Meaurement tool 2: (digital imaging Develop a CR & DR technique Chart in campus lab) Benchmark met for class of 2024. Data analysis shows a variation in scores, students are week in the area of setting technical factors in the clinical and lab setting. Faculty and Clinical staff and technologist will continue to work with students so they can properly set technical factors

Action Plan based on Analysis: No current action at this time. Faculty will review measurement tools and possible change tools for each SLO for Y24.

Results/Improvement(s) noted based on the action plans that were implemented: Benchmarks met. Faculty will discuss with advisory committee about increasing current measurement tools or changing measurement tool at next meeting

Re-evaluation Date: Summer 2024

Student Learning Outcome 1.2

Analysis: Include key findings, 5 year trending comparison, steps to take to enhance student learning

Goal 1, SLO 2. Measurement tool 1 (Trajecsys room evaluation question 4 Clinical III *student attends to patient's physical and emotional needs*,) benchmark met for class of 2024. Faculty will continue to monitor data. In the fall advisory committee meeting faculty will discuss with Clinical instructor the importance of accurate feedback on evaluations

Goal 1, SLO 2, Measurement Tool 2 (Trajecsys room evaluation question 4 Clinical V *student attends to patient's physical and emotional needs*,) benchmark met for class of 2023. Faculty will continue to monitor data. In the fall advisory committee meeting faculty will discuss with Clinical instructor the importance of accurate feedback on evaluations

Action Plan based on Analysis: No current action at this time. Faculty will review measurement tools and possible change tools for each SLO for Y24.

Results/Improvement(s) noted based on the action plans that were implemented: Faculty and assessment committee will discuss possibly increasing or changing measurement tool at next meeting

Re-evaluation Date: Summer 2024

Student Learning Outcomes	Measurement Tools	Timeframe – ·	Benchmark-	Actual Data Results	Past 3 – 5 years of Data Results	
2.1 The student will use effective oral communications	Trajecysy- Final Evaluation Question 10 (Communication skills) Clinical III & Clinical V	Measured end of 1 year- summer semester (clinical III) and 2 nd year- Spring semester (Clinical V)	students will score a 3.7 or higher on a 5 point scale	Goal met n-11 CIII 100 % scored above 3.7 n-9 CV 100% scored a 3.7 or higher	Year Clinical III Clinical V 2016/2017 4.85 4.9 2017/2018 4.97 5.0 2018/2019 4.9 4.91 2019/2020 4.69 5.0 2020/2021 4.69 4.93 2021/2022 4.25 4.84 2022/2023 5.0 4.96	
	Radiographic Pathology Oral Presentation	Measured end of 2 nd year spring semester	students will score a 90 or higher	Goal not met n-9 8 of 9 students scored a 90 or above (88%)	Year Score 2016/2017 93% 2017/2018 98% 2018/2019 96% 2019/2020 86% 2020/2021 54% 2021/2022 82% 2022/2023 89%	
2.2 The student will practice written communication skills	Radiographic Procedures III situational Question	Measured end of 2 nd year fall semester	students will score a 90 or better on a situational question correctly	Goal not met n-9 7 of 9 students scored a 90 or above (77%)	Year Score 2016/2017 97% 2017/2018 100% 2018/2019 98% 2019/2020 100% 2020/2021 100 % 2021-2022 94% 2022/2023 88%	
	Radiographic Procedures IV situational Question	Measured end of 2 nd year spring semester	students will score a 95 or better situational question correctly	Goal not met n-9 8 of 9 students scored a 90 or above (88%)	Year Score 2016/2017 95% 2017/2018 93% 2018/2019 90% 2019/2020 85% 2020/2021 92% 2021-2022 88% 2022/2023 77%	

Student Learning Outcome 2.1

Analysis: Include key findings, 5 year trending comparison, steps to take to enhance student learning

Goal 2, SLO 1 (Trajecysy Final Evaluation Clinical III, Communication skills) benchmark met for class of 2024. Faculty will monitor data for accuracy and meet with Clinical instructors at fall advisory meeting about the importance of accurate data on evaluations.

Goal 2, SLO 1 (Trajecysy Final Evaluation Clinical V Communication skills) benchmark met for class of 2023. Faculty will monitor data for accuracy and meet with Clinical instructors at fall advisory meeting about the importance of accurate data on evaluations.

Goal 2, SLO 2: (Pathology oral presentation) Benchmark not met for class of 2023. The instructor of the Pathology class will provide students with a more detailed rubric and provide an example of what the presentation should include

Action Plan based on Analysis: No current action at this time. Faculty will review measurement tools and possible change tools for each SLO for Y24.

Results/Improvement(s) noted based on the action plans that were implemented: Faculty and advisory committee will discuss possibly increasing or changing measurement tool at next meeting

Re-evaluation Date: Summer 2024

Student Learning Outcome 2.2

Analysis: Include key findings, 5 year trending comparison, steps to take to enhance student learning

Goal 2, SLO 1: (Radiographic Procedure III test situational question) benchmark not met for class of 2024. Past data analysis shows that score have varied over time and the faculty feel that the measurement tool should be changed for the upcoming Y24

Goal 2, SLO 2 (Radiographic Procedure IV test situational question) benchmark not met for class of 2023. Data analysis shows that the score has varied over time and that students would be better evaluated with a different measurement tool for Y24

Action Plan based on Analysis: No current action at this time. Faculty will review measurement tools and possible change tools for each SLO for Y24.

Results/Improvement(s) noted based on the action plans that were implemented: Faculty and assessment committee will discuss possibly increasing or changing measurement tool at next meeting

Re-evaluation Date: Summer 2024

Student Learning Outcomes	Measurement Tools	Timeframe –	Benchmark-	Actual Data Results	Past 3 – 5 years of Data Results
3.1 The student will effectively evaluate radiographic images	Radiographic Procedures II test (AP Pelvis)	Measured end of 1 nd year spring semester	80 % of students will answer question correctly	Goal met n-15 12 of 15 students scored a 90 or above (80%)	Year Score 2016/2017 90% 2017/2018 98% 2018/2019 95% 2019/2020 80% 2020/2021 88% 2021-2022 71% NM 2022/2023 80%
	Radiographic Procedures II test(Thoracic Spine)	Measured end of 1 nd year spring semester	students will score a 85 or better on thoracic spine question	Goal met n-15 13 of 15 students scored a 90 or above (86%)	Year Score 2016/2017 92% 2017/2018 90% 2018/2019 95% 2019/2020 86% 2020/2021 78%(NM) 2022/2023 86%
3.2 The student will synthesize a situational question on a written test	Radiographic Procedures I test (question upper extremity)	Measured end of 1 nd year fall semester	students will score a 85 or better on situational question on upper extremity	Goal not met n-18 14 of 18 students scored a 90 or above (77%)	Year Score 2016/2017 90% 2017/2018 95% 2018/2019 85% 2019/2020 83%(NM) 2020/2021 79%(NM) 20212022 82%(NM) 20222023 77 % (NM)
	Radiographic Procedures IV test(question mobile radiography)	Measured end of 2 nd year spring semester	students will score a 92 or better on situational question on mobile radiography	Goal met n-9 100% of students scored a 90 or above 100%)	Year Score 2016/2017 100% 2017/2018 90% 2018/2019 75% (NM) 2019/2020 92% 2020/2021 100 % 2021-2022 100% 2022-2023 100%

Student Learning Outcome 3.1

Analysis: Include key findings, 5 year trending comparison, steps to take to enhance student learning

Goal 3, SLO 1: (Radiographic Procedures II Test AP Pelvis) Benchmark met for class of 2024. Data analyses show that students still struggle with effectively evaluating radiographic images. The purpose of evaluating student twice in procedures in one semester was to see if students progressed in ability during the semester. Data shows that students continue to struggle with evaluating radiographic images Goal 3, SLO 2: (Radiographic Procedures II Test AP Thoracic Spine) Benchmark met for class 2024. Data shows a variation in score when evaluating student's skills twice in one semester. Even though t benchmark was met students scores are not were faculty believes they should be. Faculty still sees a weakness in A & P knowledge from radiology students. A large percentage of students take A & P 1 and 2 through e-learning classes.

Action Plan based on Analysis: No current action at this time. Faculty will review measurement tools and possible change tools for each SLO for Y24.

Results/Improvement(s) noted based on the action plans that were implemented: Faculty and assessment committee will discuss possibly increasing or changing measurement tool at next meeting

Re-evaluation Date: /Summer 2024

Student Learning Outcome3.2

Analysis: Include key findings, 5 year trending comparison, steps to take to enhance student learning

Goal 3, SLO 1(Radiographic Procedures I test (question upper extremity) Benchmark not met. Class of 2024, data analysis shows that incoming students are weak in A & P knowledge. Faculty believes this is due to more students taking the class through e-learning.

Goal 3, SLO 2(Radiographic Procedures IV test (question mobile radiography) Benchmark met. Data analysis shows that the classes of 2023 are able to synthesize situation questions on a written test.

Action Plan based on Analysis: No current action at this time. Faculty will review measurement tools and possible change tools for each SLO for Y24.

Results/Improvement(s) noted based on the action plans that were implemented: Faculty and assessment committee will discuss possibly increasing or changing measurement tool at next meeting

Re-evaluation Date: Spring/Summer 2024

Goal 4— The student will model professionalism

Student Learning Outcomes	Measurement Tools	Timeframe –	Benchmark-	Actual Data Results	Past 3 – 5	years of 1	Data Re	sults	
4.1 Students will demonstrate professionalism in the clinical environment	Trajecysy- Final Evaluation question 8 (Exhibits professional performance in clinical setting) Clinical III & Clinical V	Measured end of 1 year- summer semester (clinical III) and 2 nd year- Spring semester (Clinical V)	students will score at least a 4.0 or higher (5 point scale)	Goal met n-11 CIII 100% scored above 4.0 n-9 CV 100% scored a 4.0 or higher	Year 2016/2017 2017/2018 2018/2019 2019/2020 2020/2021 2021/2022 2022- 2023	Clinical III 5.0 5.0 5.0 4.63 4.86 5.0 5.0	Clinical V 4.95 5.0 4.97 5.0 4.73 4.87 4.96		
	Trajecysy- Room Evaluation Question 8 (Behavioral Section) Clinical II & Clinical IV	Measured end of 1 year- spring semester (clinical II) and 2 nd year- Fall semester (Clinical IV)	students will score a 4.8 or higher (4point scale)	Goal met n-15 CII 100% scored a 4.8 or higher n-9 CV	Year 2016 2017 2018 2019 2020 2021/2022 2022/2023	Clinica 3.94 4.0 3.97 4.0 3.97 4.0 4.0	1 II Clin 3.9 4.9 4.0 4.0 5.0 4.0 3.98	7	

				100% scored a 4.8 or higher	
4.2 Students will recognize unethical behavior	Ethic & Legal test Chapter 2 & 3 ethics scenario Question 4	Measured in 2 year- fall semester	98 % of students will answer question correctly	Goal met n-9 100% answered the question correctly	Year Score 2016/2017 100% 2017/2018 100% 2018/2019 100% 2019/2020 100% 2020/2021 100 % 2021/2022 100% 2022/2023 100%
	Clinical Journal (Ethics Class)	Measured in 2 year- fall semester	85 % of students will recognized unethical behavior	Goal met n-9 100% recognized unethical behavior	Year Score 2016/2017 100% 2017/2018 100% 2018/2019 94% 2019/2020 100% 2020/2021 100 % 2021/2022 100% 2022/2023 100%

Student Learning Outcome 4.1

Analysis: Include key findings, 5 year trending comparison, steps to take to enhance student learning

Goal 4, SLO 1 (Trajecysy final evaluation(Exhibits professional performance in clinical setting)Benchmark met for Clinical III class of 2024 and Clinical V class of 2023. Faculty plan to change measurement tool for Y24

Goal 4 SLO 2 (Trajecysy room evaluation ((Exhibits professional performance in clinical setting) Benchmark met Clinical II class of 2024 and Clinical IV class of 2023. Faculty plan to change measurement tool for Y24

Action Plan based on Analysis: No current action at this time. Faculty will review measurement tools and possible change tools for each SLO for Y24.

Results/Improvement(s) noted based on the action plans that were implemented: Faculty and assessment committee will discuss possibly increasing or changing measurement tool at next meeting

Re-evaluation Date: Summer 2024

Student Learning Outcome 4.2

Analysis: Include key findings, 5 year trending comparison, steps to take to enhance student learning

Goal 4, SLO 1 (ethics test chapter 2 & 3 ethics scenario question 4) benchmark for the class of 2023 was met with all 9 students recognizing unethical behavior on the scenario question on the test. Faculty will change the measurement tool for Y24

Goal 4, SLO 2 (ethics clinical journal) benchmark met for the class of 2023. All nine students could recognize unethical behavior in the clinical setting. Faculty will change the measurement tool for Y24

Action Plan based on Analysis: No current action at this time. Faculty will review measurement tools and possible change tools for each SLO for Y24.

Results/Improvement(s) noted based on the action plans that were implemented: Faculty and assessment committee will discuss possibly increasing or changing measurement tool at next meeting

Re-evaluation Date: Summer 2024

Goal 5- Graduates will successfully write the American Registry of Radiologic Technology (ARRT)

Student Learning Outcomes	Measurement Tools	Timeframe –	Benchmark-	Actual Data Results	Past 3 – 5 years of Data Results
5.1 Students (Graduates- 2022) will be able to pass the ARRT examination (17 students)	ARRT	Completed six months after graduates	75% of graduates will pass the registry on the first attempt	Goal met n-17 (82%) 14 of 17 passes first attempt	Year Score 2018 70% 2019 79% 2020 86% 2021 85% 2022 82% 5 Yr. Av. 80%

Goal 6- The program will be effective in the education process								
Student Learning Outcomes	Measurement Tools	Timeframe –	Benchmark-	Actual Data Results	Past 3 – 5 years of Data Results			
6.1 Of those pursing employment, students will be gainfully employed within 6 months postgraduation. (2022 graduates) (17 students)	Graduate survey	completed 6 months post- graduation	60 % will be employed within 6 months of graduation	Goal Met n-17 13 of 13 (100%) employed 2- ultrasound school 2-not seeking	Year Score 2018 80% 2019 88% 2020 100 % 2021 100% 2022 100% 5 YR. 93% Av.			

6.2 The student will complete the program within 25 months (Class of 2022-17 students)	Graduate survey	completed 6 months post- graduation	50% of students starting program will finish within 25 months	Goal Met n-17 19 started 17 graduated (89%)	Year Score 2018 55% 2019 69% 2020 66 % 2021 72 % 2022 89%
6.3 Students will be satisfied with their education (2022 graduates) 17 students	Graduate survey	completed 6 months post- graduation	85% will be satisfied with their education	Goal Met n- 9 (100%) 9 of the 17 graduates completed survey.	Year Score 2018 100% 2019 100% 2020 100 % 2021 100% 2022 100%
6.4 Employers will be satisfied with the graduate's performance. (2022 graduates) (17 students)	Graduate survey	completed 6 months post- graduation	80% of employers satisfied with graduate's performance	Goal Met n- 9 (100%) 4 of the 9 graduate's employer completed survey and satisfied.	Year Score 2016 100% 2017 100% 2018 100% 2019 100% 2020 100 % 2021 100% 2022 100 %