

WCC RADIOGRAPHY PROGRAM ANNUAL ASSESSMENT DATA: Graduate Class of 2025

Mission Statement: The mission of the Radiography Program is to provide students with a high-quality, well-rounded educational experience which results in graduates who possess the knowledge, skills, and abilities to enter the field of diagnostic imaging as entry-level radiographers. Graduates of the Washenaw Community College Radiography Program will demonstrate the necessary skills to integrate the theoretical knowledge and essential clinical skills to perform radiologic procedures and provide exemplary patient care in a variety of healthcare settings with diverse patient populations.

Program Goals

Goal 1: Clinical Competency: Students will demonstrate proficiency in technical and clinical skills.

Goal 2: Critical Thinking: Students will demonstrate critical thinking and problem-solving skills.

Goal 3: Communication Skills: Students will demonstrate the ability to effectively communicate orally and in writing.

Goal 4: Professional and Ethical Principles: Students will demonstrate the ability to analyze and address ethical and medical issues in patient care while exhibiting professionalism in the clinical setting.

Goal 1: Clinical Competency: Students will demonstrate proficiency in technical and clinical skills.						
Student Outcomes	Assessment Tool	Benchmark	Timeline	Faculty Responsible	Results per Academic Year/Class	Analysis/Recommendations
1.1 Students will perform diagnostic radiographic procedures.	RAD 120 - Final Clinical Performance Evaluation: Technical Aptitude – 3rd statement "Demonstrates proper manipulation of radiographic / fluoroscopic / portable equipment including tube, SID, table movement / locks / tube / bucky alignment"	Average score ≥ 4 (1 – 5-point scale)	First Year, 3rd semester (Winter)	Clinical Coordinator	Class of 2021: No data due to COVID-19 restrictions Class of 2022: Average score 4.18 9 students (41%) received a score of 5 8 students (36%) received a score of 4 5 students (23%) received a score of 3 Class of 2023: Average score 4.08 9 students (36%) received a score of 5 10 students (40%) received a score of 4 5 students (20%) received a score of 3 1 student (4%) received a score of 2 Class of 2024: Average score 4.12 8 students (31%) received a score of 5 13 students (50%) received a score of 4 5 students (19%) received a score of 3 Class of 2025: Average score 4.28 11 students (44%) received a score of 5 8 students (32%) received a score of 4 5 students (20%) received a score of 3	The assessment of students' technical aptitude in performing diagnostic radiographic procedures, as measured by the RAD 120 Final Clinical Performance Evaluation, continues to reflect a strong level of proficiency across successive cohorts. Utilizing a 5-point evaluation scale, the Class of 2025 achieved an average score of 4.28, marking the highest average since the implementation of this scale in 2022. A closer analysis reveals that 44% of students received a top score of 5, an increase from 31% in the previous cohort. Additionally, 32% earned a score of 4, and 20% received a score of 3. This distribution demonstrates a notable upward trend in technical competency, particularly when compared to the Classes of 2023 and 2024, which recorded average scores of 4.08 and 4.12 respectively. The data suggest that students are increasingly confident and competent in manipulating radiographic equipment. This improvement may reflect enhancements in instructional strategies, clinical site experiences, or student engagement with hands-on skill development (simulations). Given that the Class of 2025 not only met but exceeded the established benchmark of ≥ 4 , and showed gains over previous years, no modifications to the assessment tool or instructional approach are recommended at this time. Continued monitoring will ensure that this positive trajectory is maintained.
	RAD 150 - Radiographic Positioning Simulation Exercises (Spinal Column)	Students will achieve a score of 90% or higher	First Year, 4th semester (Sp/Su)	Clinical Coordinator	Class of 2021: No data – campus closed Class of 2022: Average score 98% Class of 2025:	The evaluation of students' proficiency in radiographic positioning through simulation exercises has continued to affirm strong academic and clinical preparation. The initial tool, which focused solely on the spinal column, was used through the Class of 2022 and demonstrated exceptional outcomes. Specifically, the Class of 2022 achieved an average score of 98%, surpassing the benchmark of 90% and reflecting a high degree of competency in spinal imaging techniques. In response to curricular goals for more comprehensive assessment, the evaluation tool was revised beginning with the Class of 2023 to include simulations of the upper extremities, lower extremities, and spinal column. This change broadened the scope of student performance assessment and aligned more closely with the variety of procedures required in clinical practice.
	RAD 150 - Radiographic Positioning Simulation Exercises (Upper Extremities, Lower Extremities, and Spinal Column)	Students will achieve a score of 90% or higher on all three radiographic positioning simulations of the upper extremities, lower extremities, and spinal column	First Year, 4th semester (Sp/Su)	Clinical Coordinator	Class of 2023: Average score 97.7% Class of 2024: Average score 97.2% Class of 2025: Average Score 95.2%	The Class of 2023 achieved an average score of 97.7%, followed by 97.2% for the Class of 2024, both well above the benchmark. The Class of 2025, while still performing at a high level, posted a slightly lower average of 95.2%. While this represents a modest decline, it still reflects consistent success and continued mastery of essential positioning skills across multiple anatomical regions. The data indicate that the revised assessment tool is effective in measuring comprehensive positioning competencies. Given that all three cohorts using the updated tool have exceeded the performance benchmark, no revisions to the assessment method are recommended at this time. Continued faculty observation and periodic review should ensure that students remain well-prepared for clinical application.

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	RAD 240 - Final Clinical Performance Evaluation: Competency Maintenance – 2nd statement "When the student is involved in procedures previously mastered, the student is able to perform the exam perform the exam with minimal assistance"	Average score ≥ 4 (1 – 5-point scale)	Second Year, 7th semester (Sp/Su)	Clinical Coordinator	Class of 2021: Average score 5 21 students (100%) received a score of 5 Class of 2022: Average score 4.82 17 students (85%) received a score of 5 2 students (10%) received a score of 4 1 student (5%) received a score of 3 Class of 2023: Average score 4.96 22 students (96%) received a score of 5 1 student (4%) received a score of 4 Class of 2024: Average score 4.92 23 students (92%) received a score of 5 2 students (8%) received a score of 4 Class of 2025: Average score 4.88 22 students (92%) received a score of 5 1 student (4%) received a score of 4 1 student (4%) received a score of 3	The RAD 240 Final Clinical Performance Evaluation assesses students' ability to independently perform previously mastered radiographic procedures with minimal assistance. This is a critical indicator of clinical readiness and autonomy. Since the implementation of the 5-point evaluation scale, student performance has consistently exceeded the benchmark of ≥ 4, demonstrating strong competency retention and execution in advanced clinical settings. The Class of 2025 maintained this high standard, earning an average score of 4.88, with 92% of students achieving a top score of 5. One student (4%) received a score of 4, and one student (4%) earned a score of 3, reflecting a slight variation in individual performance but still well within the acceptable range. These results closely align with those of the Classes of 2023 and 2024, which recorded average scores of 4.96 and 4.92, respectively, and similarly high percentages of students achieving a score of 5. This sustained excellence across five cohorts underscores the program's effectiveness in reinforcing foundational clinical skills throughout the curriculum. The consistency in high scores also suggests that students are well-prepared to transition into independent practice, a key goal of the final clinical rotation!
1.2 Students will demonstrate the ability to perform basic patient care assessment skills.	RAD 101: Patient Transfer Competency Form	*Average score ≥ 32 (total points 39) *Average score ≥ 27 (total points 33) #Average score ≥ 40 (total points 48)	First Year, 1st semester (Sp/Su)	RAD 101 Instructor	*Class of 2021: Average Score 38 *Class of 2022: Average Score 31.6 #Class of 2023: Average Score 45 #Class of 2025: Average Score 46.6	The RAD 101 Patient Transfer Competency Form evaluates students' ability to perform basic patient care assessment skills—an essential foundation for safe and effective clinical practice. Competency in this area reflects students' readiness to interact with patients and contribute meaningfully to clinical workflows early in their training. Benchmarks vary by total points possible but are calibrated to ensure students achieve a minimum standard of proficiency appropriate to the tool's design. The Class of 2021 exceeded the benchmark with an average score of 38 out of 39, indicating a high level of mastery in patient handling and assessment fundamentals. The Class of 2022 also met the benchmark, achieving an average score of 31.6 out of 33, comfortably above the threshold of ≥ 27. This result reflects continued instructional effectiveness and student readiness during that academic year. Beginning with the Class of 2023, student outcomes have demonstrated a clear and sustained upward trend. The Class of 2023 averaged 45 out of 48, with continued improvement observed in the Class of 2024 (45.8) and Class of 2025 (46.6). These results not only meet but exceed the benchmark of ≥ 40, confirming that students are consistently achieving a high level of patient care competence early in the program. This improvement trend signals effective curricular adjustments and/or enhanced clinical preparation beginning with the 2023 cohort. The consistency across the past three cohorts indicates that recent instructional strategies and clinical training methodologies are successfully supporting student development in this domain. Given the current trajectory of performance, no modifications to the assessment tool or related instructional approaches are recommended at this time. Faculty will continue to monitor this outcome annually to ensure students maintain these high levels of performance in basic patient care skills.
	RAD 222 Patient Assessment Skills Check-Out Form: Venipuncture	Average score ≥ 17 (total points 20)	Second Year, 5th semester (Fall)	RAD 222 Instructor	Class of 2021 Average score 20 Class of 2022 Average score 20 21 students (100%) received a score of 20	Student proficiency in basic patient care assessment skills has remained consistently high across multiple graduating classes. Initially evaluated through the RAD 222 Venipuncture Check-Out Form, students demonstrated exceptional performance. The Classes of 2021 and 2022 both achieved perfect average scores of 20 out of 20, with 100% of students in the Class of 2022 attaining full marks. These results reflected uniform competence in venipuncture technique and patient handling.

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	RAD 222 Patient Assessment Skills Check-Out Form: Vital Signs	Average score ≥ 83 (total points 90)	Second Year, 5th semester (Fall)	RAD 222 Instructor	Class of 2023: Average score 90 22 students (100%) received a score of 90 Class of 2024: Average score 90 25 students (100%) received a score of 90 Class of 2025: Average score 90 24 students (100%) received a score of 90	To provide a broader assessment of clinical readiness, the program transitioned in 2023 to the RAD 222 Vital Signs Check-Out Form, which evaluates students' ability to accurately assess and record patient vital signs. This revised tool uses a 90-point scale with a benchmark of 83. The transition has proven successful. The Classes of 2023, 2024, and 2025 each achieved a perfect average score of 90, with 100% of students in all three cohorts reaching the maximum score. These outcomes suggest that the revised tool not only maintains high standards of assessment but also ensures consistency in instructional effectiveness and student engagement. Given the sustained excellence in performance and the effectiveness of the current assessment tool, no modifications are recommended at this time. The program will continue to monitor this outcome area to ensure that students remain competent in fundamental patient care responsibilities essential to clinical practice.
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Goal 2: Critical Thinking: Students will demonstrate critical thinking and problem-solving skills.						
	Student Outcomes	Assessment Tool	Benchmark	Timeline	Faculty Responsible	Results per Academic Year/Class
2.1	Students will calculate the correct exposure factors.	RAD 124 Lab Assignment Effect of Distance on Density/Exposure Maintenance Formula	Average score ≥ 20 (26 points)	First Year, 2nd semester (Fall)	RAD 124 Instructor	Class of 2021: Average score 23.9 Class of 2022: Average score 24 Class of 2023: Average score 24.1 Class of 2024: Average score 24.67 The RAD 124 laboratory assignment evaluates students' ability to calculate correct exposure factors, a fundamental skill in radiographic technique that directly impacts image quality and patient safety. From the Class of 2021 through the Class of 2024, student performance was assessed using the Effect of Distance on Density/Exposure Maintenance Formula lab assignment. The benchmark was set at an average score of ≥ 20 out of 26. All four cohorts consistently exceeded this benchmark, with scores of 23.9 (2021), 24.0 (2022), 24.1 (2023), and 24.67 (2024). These results demonstrate sustained instructional effectiveness and student comprehension of exposure factor relationships across multiple years. Beginning with the Class of 2025, a new assessment tool was implemented: The Effects of Grids on Contrast and Image Quality lab assignment. This change was made to enhance clinical relevance by incorporating concepts of contrast control and grid usage into the evaluation of exposure factor decision-making. The benchmark for the new tool was set at 10 points or more out of 15. The Class of 2025 achieved an average score of 14.38, which is significantly higher than the established standard. This strong initial performance with the new tool supports the validity of the assessment and affirms that students are continuing to demonstrate a high level of proficiency in exposure factor calculation. The tool's integration of grid and contrast considerations offers added depth to students' technical understanding while maintaining alignment with the intended learning outcome. Given these results, no modifications to the current instructional strategies or assessment methodology are recommended at this time. Faculty will continue to monitor performance annually to ensure students maintain proficiency in this essential technical skill.
		RAD 124 Lab Assignment - The Effects of Grids on Contrast and Image Quality	Average score ≥ 10 (15 points)	First Year, 2nd semester (Fall)	RAD 124 Instructor	Class of 2025: Average score 14.38

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		Average score of 90% or better (100 points) - Combined average score of 3 assignments	Second Year, 5th semester (Fall)	Clinical Coordinator	Class of 2021: Average score 96% Class of 2022: Average score 97.6% Class of 2023: Average score 98.5% Class of 2024: Average score 97.2% Class of 2025: Average score: 98.6%	Student mastery of exposure factor calculation has remained consistently strong through the Radiographic Technique Manual Project in RAD 217. This project requires students to apply technical knowledge to a range of procedures, including the upper and lower extremities, skull, spine, chest, abdomen, ribs, and sternum. The benchmark for success is an average score of 90 percent or higher across three assignments. The Class of 2025 achieved an average score of 98.6 percent, the highest of the past five cohorts. This represents a continued upward trajectory from the Class of 2021's average of 96 percent, through 97.6 percent in 2022, 98.5 percent in 2023, and 97.2 percent in 2024. The consistently high scores reflect strong curricular alignment with this outcome and suggest that students are well-prepared to select appropriate technical factors for various clinical scenarios. The data support the conclusion that the RAD 217 project remains an effective tool for assessing student competence in this area. Given the consistently exceptional results and the upward trend in performance, no changes to the assessment tool or instructional approach are recommended at this time. Continued use of this project is encouraged as a reliable measure of students' applied radiographic knowledge.
2.2	Students will solve problems in the clinical setting.	RAD 217 Radiographic Technique Manual Project - 1. Upper and lower extremities, 2. Skull procedures, and 3. Spinal Column, Chest, Abdomen, Ribs, and Sternum	Average score ≥ 4 (1 - 5-point scale)	Second Year, 6th semester (Winter)	Clinical Coordinator	Class of 2021: Average score 4.73 16 students (76%) received a score of 5 4 students (19%) received a score of 4 1 student (5%) received a score of 3 Class of 2022: Average score 4.55 12 students (60%) received a score of 5 7 students (35%) received a score of 4 1 student (5%) received a score of 3 Class of 2023: Average score 4.6 13 (59%) students received a score of 5 9 (41%) students received a score of 4 Class of 2024: Average score: 4.82 20 (80%) students received a score of 5 5 (20%) students received a score of 4 The Class of 2025 earned an average score of 4.72. Within this group, 72 percent of students received a score of 5, 20 percent earned a 4, and 4 percent received a 3. The early implementation of this assessment tool appears to be both effective and informative. Given the high level of performance and the benefits of identifying developmental needs early in the program, no changes to the current assessment process are recommended at this time. Faculty will continue to monitor longitudinal outcomes to evaluate the long-term impact of this curricular adjustment.
		RAD 225 Final Evaluation (Judgment/Accountability 8th Statement "The student demonstrates the ability to think critically and solves problems or challenges as they arise"	Average score ≥ 4 (1 - 5-point scale)	First Year, 4th semester (Spring/Summer)	Clinical Coordinator	Class of 2025: Average score: 4.72 18 students (72%) received a score of 5 5 students (20%) received a score of 4 1 student (4%) received a score of 3
		RAD 150 Final Evaluation (Judgment/Accountability 8th Statement "The student demonstrates the ability to think critically and solves problems or challenges as they arise"				

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Goal 3: Communication Skills: Students will demonstrate the ability to effectively communicate orally and in writing.						
Student Outcomes	Assessment Tool	Benchmark	Timeline	Faculty Responsible	Results per Academic Year/Class	Analysis
3.1 Students will use effective oral communication skills in the clinical setting.	RAD 120 Final Evaluation: Patient Communication – 1st statement “The student demonstrates the ability to communicate with the patient in a professional manner”	Average score ≥ 4 (1 – 5-point scale)	First Year, 3rd semester (Winter)	Clinical Coordinator	Class of 2021: No data due to COVID-19 restrictions Class of 2022: Average score 4.27 12 students (55%) received a score of 5 6 students (27%) received a score of 4 3 students (14%) received a score of 3 0 students (0%) received a score of 2 1 students (4%) received a score of 1 Class of 2023: Average score 4.36 13 students (52%) received a score of 5 8 students (32%) received a score of 4 4 students (16%) received a score of 3 Class of 2024: Average score 4.5 15 students (57%) received a score of 5 9 students (34%) received a score of 4 2 students (9%) received a score of 3 Class of 2025: Average score: 4.42 13 students (52%) received a score of 5 8 students (32%) received a score of 4 3 students (12%) received a score of 3	Oral communication skills are essential for effective patient care and professionalism in the clinical environment. This outcome is assessed using the RAD 120 Final Evaluation, specifically measuring the student's ability to communicate with patients in a professional manner. The benchmark for success is an average score of ≥ 4 on a 5-point scale. The Class of 2025 achieved an average score of 4.42, with 52 percent of students receiving a top score of 5 and 32 percent scoring a 4. This reflects a slight decline from the Class of 2024's average of 4.5, though performance remains strong and above the benchmark. The data is closely aligned with the Class of 2023 (4.36) and slightly ahead of the Class of 2022 (4.27), showing a consistent trend of improvement since 2022. These results indicate that the majority of students consistently demonstrate professional communication with patients during clinical rotations. The upward trend from 2022 through 2024, and the sustained high performance by the Class of 2025, suggest that the program's emphasis on professional interaction and communication training is effective (Pre-clinical training in the Sp/Su Semester). As students continue to meet or exceed expectations in this area, no changes are recommended to the assessment tool or instructional methods at this time. Continued emphasis on interpersonal communication skills through simulation, classroom instruction, and clinical mentorship will support ongoing success in this domain.
	Radiography Student Professional Skills Evaluation - Question 1 “The student communicates with patients in a manner that you would expect/require of an entry-level radiographer.”	Average score ≥ 3 (1 – 4-point scale)	Annually in June	Clinical Coordinator	Class of 2020: Average score 3.8 18 students received a score of 4 4 students received a score of 3 Class of 2021: Average score 3.94 20 students received a score of 4 1 student received a score of 3 Class of 2022: Average score 3.91 18 students received a score of 4 1 student received a score of 3.67 1 student received a score of 3 Class of 2023: Average score 4 24 students (100%) received a score of 4 Class of 2024: Average score 3.92 23 (92%) students received a score of 4 2 (8%) students received a score of 3 Class of 2025: Average score 3.92 22 students (92%) received a score of 4 2 students (8%) received a score of 3	Effective oral communication in clinical settings is further assessed using the Radiography Student Professional Skills Evaluation – Question 1, which evaluates how well students communicate with patients in a manner expected of entry-level radiographers. The benchmark is an average score of ≥ 3 on a 4-point scale. The Class of 2025 achieved an average score of 3.92, identical to the Class of 2024. In both cohorts, 92 percent of students received the highest possible score of 4, while 8 percent received a 3. These results mirror the high level of consistency established by the Class of 2023, which achieved a perfect average of 4.0, with all students scoring a 4. Earlier cohorts also demonstrated strong performance, with average scores of 3.94 in 2021, 3.91 in 2022, and 3.8 in 2020. Collectively, the data reflects a stable trend of students exceeding the communication expectations for entry-level radiographers, with slight increases in consistency and performance over time. The high proportion of students achieving top scores confirms that the program continues to instill professional, patient-centered communication habits. As these outcomes consistently surpass the benchmark, no changes are recommended to the assessment tool or related instruction. Continued emphasis on clinical communication practices, reinforced through patient interaction and feedback, remains appropriate.
3.2 Students will practice writing skills.	RAD 120 - Contrast Case Study Paper	Average score ≥ 80 points (100- point rubric)	First Year, 3rd semester (Winter)	Clinical Coordinator	Class of 2021: Average score 97 Class of 2022: Average score 97 Class of 2023: Average Score 97 Class of 2024: Average Score 95.5	Written communication is a foundational skill for radiography professionals, supporting documentation, patient interaction, and clinical reasoning. This outcome was originally assessed using the RAD 120 Contrast Case Study Paper, which evaluated students' ability to convey technical and clinical information in writing. For three consecutive cohorts (Classes of 2021, 2022,

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	RAD 110 Clinical Site Orientation Paper – Medical Emergencies/Communication with Difficult Patients	Average score ≥ 80 points (100– point rubric)	First Year, 2nd semester (Fall)	Clinical Coordinator	Class of 2025: Average Score 100	and 2023), students consistently achieved an average score of 97 out of 100, reflecting strong writing proficiency. The Class of 2024 maintained a high standard with an average of 95.5, continuing the trend of excellence. To enhance alignment with real-world clinical communication and patient care scenarios, the program introduced a revised assignment for the Class of 2025; the RAD 110 Clinical Site Orientation Paper – Medical Emergencies and Communication with Difficult Patients. This new assignment retained the same benchmark of ≥ 80 points and broadened the assessment focus to include situational awareness, clinical response, and patient interaction. The Class of 2025 performed exceptionally well on the updated assessment, achieving an average score of 100, with all students meeting the maximum standard. This result indicates that students not only maintained strong writing skills but also effectively applied them in clinically relevant contexts. Given the successful implementation of the new writing assignment and the outstanding performance of the Class of 2025, no changes are recommended at this time. Continued use of this revised tool is encouraged to further integrate critical thinking and clinical communication into students' written work.
	RAD 225 – Advanced-Level Training Research Paper	Average score ≥ 80 points (100– point rubric)	Second Year, 6th semester (Winter)	Clinical Coordinator	Class of 2021: Average score 97 Class of 2022: Average score 98 Class of 2023: Average score 99 Class of 2024: Average score 98 Class of 2025: Average score 94.2	The RAD 225 Advanced-Level Training Research Paper serves as a summative measure of students' academic writing, research, and critical analysis skills. With a benchmark of ≥ 80 points on a 100-point rubric, this assignment challenges students to synthesize advanced radiologic concepts and present their findings in a clear, professional format. The Class of 2025 achieved an average score of 94.2, which, while slightly lower than the scores of the previous four cohorts, remains well above the established benchmark. The Classes of 2021 through 2024 demonstrated exceptional performance, with average scores of 97, 98, 99, and 98, respectively. These consistently high scores reflect the strength of the program's emphasis on research-based writing and academic rigor. The slight decline in the Class of 2025's average may warrant an informal review to determine if changes in topic selection, instructional guidance, or grading criteria influenced the outcome. However, the score of 94.2 still indicates a strong grasp of research methodology, technical writing, and content integration at an advanced level. Given that all cohorts have exceeded the benchmark and demonstrated competence in professional writing, no immediate changes to the assessment tool are recommended. Faculty may consider additional formative support or peer-review opportunities to sustain and potentially enhance student performance in future cohorts.

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Goal 4: Professional and Ethical Principles: Students will demonstrate the ability to analyze and address ethical and medical issues in patient care while exhibiting professionalism in the clinical setting.					
Student Outcomes	Assessment Tool	Benchmark	Timeline	Faculty Responsible	Results per Academic Year/Class
4.1 Students will recognize the ethical and medical issues in patient care.	RAD 110 writing assignment, Patient/Co-Worker Communication, and Cultural Diversity	Average score of 80 points or better (100 points rubric)	First Year, 1st semester (Fall)	Clinical Coordinator	Class of 2020: Average score 94 Class of 2021: Average score 85 Class of 2022: Average score 93 Class of 2023: Average score 92 Class of 2024: Average score 95 Class of 2025: Average score 95.5
					Students' understanding of ethical and medical issues in patient care is assessed through a writing assignment in RAD 110 focused on patient and co-worker communication and cultural diversity. The benchmark for this assignment is an average score of 80 points or better on a 100-point scale. Performance across all cohorts has consistently exceeded the benchmark. The Class of 2025 achieved an average score of 95.5, maintaining the upward trend established by the Class of 2024, which earned a score of 95. Previous classes also demonstrated strong results, including 92 for the Class of 2023, 93 for the Class of 2022, and 94 for the Class of 2020. The Class of 2021 posted a lower average of 85, though still well above the minimum threshold. The consistently high scores reflect a solid grasp of the ethical dimensions of patient care and the importance of respectful communication in diverse clinical settings. The upward trend over the last two cohorts indicates that recent instructional approaches and classroom discussions may be contributing positively to student engagement and understanding in this area. As students continue to demonstrate competence and insight in addressing sensitive interpersonal and ethical issues, no changes to the assessment tool or instructional approach are recommended at this time. Continued integration of real-world case scenarios and reflective writing is encouraged to sustain these positive outcomes.
	RAD 103 – Unit 4 Homework Essay Questions on Ethical and Medical Issues in Patient Care	Average score > 32 points (40 points)	First Year, 1st semester (Sp/Su)	RAD 103 Instructor	Class of 2021: Average score 40 Class of 2022: Average score 40
	RAD 222 ARRT Code of Ethics Assignment	Average score > 32 points (40 points)	Second Year, 5th semester (Fall)	RAD 222 Instructor	Class of 2023: Average score 38.91 Class of 2024: Average score 39.81 Class of 2025: Average score 40
					In 2023, the program transitioned to the RAD 222 ARRT Code of Ethics Assignment, designed to evaluate students' grasp of professional conduct within the framework of the American Registry of Radiologic Technologists (ARRT) Code of Ethics. This assignment uses the same 40-point scale with a benchmark of > 32. Performance on this updated tool has been consistently high. The Class of 2023 earned an average score of 38.91, followed by 39.81 for the Class of 2024. The Class of 2025 achieved a perfect average score of 40, demonstrating full comprehension of the ARRT ethical standards and their application in clinical practice. The data confirm that the updated assessment tool is effectively measuring students' ethical reasoning and professional accountability. Given the continued high performance across all cohorts and the perfect results achieved by the most recent class, no changes to the assessment method are recommended. Continued emphasis on ethical case analysis and discussion in conjunction with this assignment will help maintain these strong outcomes.

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4.2	Students will exhibit professional behaviors in the clinical setting.	RAD 150 Final Performance Evaluation – Interpersonal Relationships: The ability to communicate and interact in a professional manner with clinical staff and peers. “Student communicates well with staff members, peers, and physicians in an effort to promote a productive and respectful environment”	*Average score ≥ 3 (1 – 4-point scale) +Average score ≥ 4 (1 – 5-point scale)	First Year, 4th semester (Spring/Summer)	Clinical Coordinator	*Class of 2021: Average score 3.9 20 students (91%) received a score of 4 2 students (9%) received a score of 3 +Class of 2022: Average score 4.86 17 students (85%) received a score of 5 3 students (15%) received a score of 4 +Class of 2023: Average score 4.42 14 students (58%) received a score of 5 6 students (25%) received a score of 4 4 students (17%) received a score of 3 +Class of 2024: Average score: 4.58 18 students (69%) received a score of 5 5 students (19%) received a score of 4 3 students (12%) received a score of 3 +Class of 2025: Average score: 4.72 20 students (83%) received a score of 5 1 student (4%) received a score of 4 3 students (13%) received a score of 3	Professional behavior in clinical settings is essential for fostering effective teamwork, communication, and patient care. This outcome is assessed through the RAD 150 Final Performance Evaluation, specifically focusing on students' ability to interact professionally with staff, peers, and physicians. Since the 2022 cohort, this outcome has been measured using a 5-point scale with a benchmark of ≥ 4. The Class of 2025 demonstrated outstanding performance, earning an average score of 4.72, with 83 percent of students receiving a top score of 5. This represents the highest average among all cohorts assessed on the 5-point scale. The Class of 2024 achieved a strong average of 4.58, followed by 4.42 in the Class of 2023 and 4.86 in 2022. Earlier, the Class of 2021, evaluated on a 4-point scale, also showed solid performance with an average of 3.9. These consistently high results underscore the program's emphasis on professionalism and interpersonal effectiveness in clinical education. The upward trajectory, culminating in the Class of 2025's performance, suggests continued gains in student development and engagement in professional behaviors. Given the consistently strong outcomes and particularly the improvement shown in the most recent class, no changes are recommended to the assessment tool or instructional strategies. Continued integration of professionalism standards throughout clinical courses is advised to sustain these results.
		Radiography Student Professional Skills Evaluation: 2nd statement “The student communicates with fellow students, staff, managers, and physicians in a manner you would expect/require of an entry level radiographer.”	Average score ≥ 3 (1 – 4-point scale)	Annually in June	Clinical Coordinator	Class of 2021: Average score 3.88 13 students (74%) received a score of 4 2 students (26%) received a score of 3 Class of 2022: Average score 3.95 19 (95%) students received a score of 4 1 (5%) student received a score of 3, 67	Professional conduct and interpersonal communication in the clinical setting are assessed through the Radiography Student Professional Skills Evaluation. The initial evaluation focused on students' ability to communicate appropriately with fellow students, staff, managers, and physicians. Beginning with the Class of 2023, the tool was updated to emphasize professional judgment and adherence to organizational policies and norms, while maintaining the same 4-point scale and benchmark of ≥ 3. The Classes of 2021 and 2022 performed well under the original tool, with average scores of 3.88 and 3.95, respectively. The transition to the updated 12th statement in 2023 maintained this high standard. The Class of 2023 achieved an average score of 3.96, followed closely by 3.92 for both the Classes of 2024 and 2025. In each of these latter cohorts, 92 percent of students earned a top score of 4, with only 8 percent scoring a 3. These outcomes confirm that students consistently exhibit the professional behaviors expected of entry-level radiographers, including sound judgment, respectful communication, and awareness of clinical norms. The updated evaluation statement provides a more comprehensive measure of professionalism, aligning closely with current clinical expectations and JRCERT standards. Given the strong and consistent performance across all cohorts, including under the revised evaluation statement, no changes are recommended to the assessment tool at this time. Continued use of this metric is encouraged to ensure that students maintain high standards of professional behavior.
		Radiography Student Professional Skills Evaluation: 12th statement “The student uses professional judgment and shows respect for organizational policies and norms.”	Average score ≥ 3 (1 – 4-point scale)	Annually in June	Clinical Coordinator	Class of 2023: Average score 3.96 22 (97%) students received a score of 4 1 (3%) student received a score of 3 Class of 2024: Average score 3.92 23 (92%) students received a score of 4 2 (8%) students received a score of 3 Class of 2025: Average score 3.92 22 students (92%) received a score of 4 2 students (8%) received a score of 3	

Program Effectiveness Measures:					Analysis	
Student Outcomes	Assessment Tool	Benchmark	Timeline	Faculty Responsible	Results per class	

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1	The 5-year average pass rate for the ARRT credentialing examination is not less than 75% on the first attempt.	ARRT Annual Program Summary Report for WCC graduates	The five-year average pass rate of not less than 75% on the 1st attempt of the National Radiography Certificate Examination administered by the American Registry of Radiologic Technologist (ARRT).	Annually in July	Program Director	2021: 95% 2022: 100% 2023: 100% 2024: 100% 2025: 96% 5 Year Average 98.2% The Radiography Program has consistently exceeded this benchmark, with the Class of 2025 achieving a 96 percent pass rate. This strong performance follows three consecutive years of perfect pass rates (100 percent in 2022, 2023, and 2024) and a 95 percent rate in 2021. The resulting 5-year average is 98.2 percent, far surpassing the minimum standard. This sustained excellence reflects the program's robust curriculum, effective instructional strategies, and rigorous clinical preparation. It also demonstrates that students are consistently graduating with the knowledge and skills necessary to succeed on the national certification exam and transition into professional practice. Given the continued success in this area, no changes to instructional or preparatory strategies are recommended at this time. The program should continue monitoring individual cohort performance to ensure ongoing compliance with JRCERT accreditation requirements and maintain the high level of graduate success.	The ARRT credentialing examination pass rate is a critical measure of program effectiveness and graduate preparedness. The established benchmark requires that the 5-year average first-time pass rate not fall below 75 percent. The Radiography Program has consistently exceeded this benchmark, with the Class of 2025 achieving a 96 percent pass rate. This strong performance follows three consecutive years of perfect pass rates (100 percent in 2022, 2023, and 2024) and a 95 percent rate in 2021. The resulting 5-year average is 98.2 percent, far surpassing the minimum standard. This sustained excellence reflects the program's robust curriculum, effective instructional strategies, and rigorous clinical preparation. It also demonstrates that students are consistently graduating with the knowledge and skills necessary to succeed on the national certification exam and transition into professional practice. Given the continued success in this area, no changes to instructional or preparatory strategies are recommended at this time. The program should continue monitoring individual cohort performance to ensure ongoing compliance with JRCERT accreditation requirements and maintain the high level of graduate success.
2	5-year average job placement rate of graduates actively seeking employment is no less than 75% within 6 months of graduation.	Email & Social Media	Five-year average job placement rate of not less than 75% within 6 months of graduation.	Annually in July	Program Director	2021: 95% 2022: 100% 2023: 95% 2024: 96% 2025: 96% 5 Year Average 96.4% Job placement continues to serve as a significant measure of program effectiveness and graduate readiness. In alignment with JRCERT standards, the program maintains a benchmark that at least 75 percent of graduates actively seeking employment will secure a position within a defined timeframe. Effective with the Class of 2025, faculty updated the internal assessment benchmark to reflect job placement within six months of graduation, rather than twelve. This change was implemented to expedite the program's assessment reporting process and ensure timely data analysis for continuous improvement. Importantly, the program will continue to meet the JRCERT's requirement of reporting placement rates based on 12 months post-graduation for the Program Effectiveness Data submitted annually. Under the revised six-month timeframe, the Class of 2025 achieved a 96 percent placement rate. This matches the Class of 2024 and follows similarly strong performance from 2023 (95 percent), 2022 (100 percent), and 2021 (95 percent), resulting in a five-year average of 96.4 percent. These outcomes affirm that graduates are securing employment promptly and are viewed as competent and well-prepared by regional employers. The program's emphasis on clinical excellence and career readiness is clearly contributing to these results. Given the program's continued success in this area, no changes are recommended to employment support services or curricular components at this time. The revised benchmark timeframe will allow the program to evaluate outcomes more efficiently while maintaining full compliance with accreditation standards.	Job placement continues to serve as a significant measure of program effectiveness and graduate readiness. In alignment with JRCERT standards, the program maintains a benchmark that at least 75 percent of graduates actively seeking employment will secure a position within a defined timeframe. Effective with the Class of 2025, faculty updated the internal assessment benchmark to reflect job placement within six months of graduation, rather than twelve. This change was implemented to expedite the program's assessment reporting process and ensure timely data analysis for continuous improvement. Importantly, the program will continue to meet the JRCERT's requirement of reporting placement rates based on 12 months post-graduation for the Program Effectiveness Data submitted annually. Under the revised six-month timeframe, the Class of 2025 achieved a 96 percent placement rate. This matches the Class of 2024 and follows similarly strong performance from 2023 (95 percent), 2022 (100 percent), and 2021 (95 percent), resulting in a five-year average of 96.4 percent. These outcomes affirm that graduates are securing employment promptly and are viewed as competent and well-prepared by regional employers. The program's emphasis on clinical excellence and career readiness is clearly contributing to these results. Given the program's continued success in this area, no changes are recommended to employment support services or curricular components at this time. The revised benchmark timeframe will allow the program to evaluate outcomes more efficiently while maintaining full compliance with accreditation standards.

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3	Students admitted to the program will successfully complete the program within the 2-year sequence.	Admission/ Graduation data	70% of the students admitted and enrolled in the program will complete the program within two years. The benchmark will be based on program retention rates defined by the Joint Review Committee on Education in Radiologic Technology (JRCERT). When calculating the completion rate, the program will not consider students who attrite due to nonacademic reasons. This can include financial, medical/mental health, or family reasons, military deployment, a change in major/course of study, and/or other reasons classified as a nonacademic withdrawal.	Annually in July	Program Director	2021: 92% 2022: 80% 2023: 82% 2024: 92% 2025: 81% 5 Year Average 85.4% The Class of 2025 achieved a completion rate of 81 percent, consistent with the Classes of 2022 (80 percent) and 2023 (82 percent). Higher completion rates were observed in the Classes of 2021 and 2024, each reporting 92 percent. These results reflect stable performance well above the minimum benchmark, with the lowest cohort still exceeding the 70 percent threshold by a significant margin. During the last program review cycle, faculty proposed increasing the internal benchmark from 70 percent to 80 percent to better align with recent program outcomes. This proposal was also discussed at the Advisory Board Meeting held at the end of the Winter 2025 semester. However, a formal decision was not reached at that time. The topic is scheduled for further discussion by program faculty at the beginning of the Winter 2026 semester. At present, the program continues to meet the established benchmark, and no changes are recommended to curriculum structure or student support services. Faculty will continue to monitor student progression and evaluate potential adjustments to the benchmark based on future cohort performance and stakeholder feedback.	Program completion is a key indicator of student retention and overall program effectiveness. In accordance with JRCERT guidelines, the program maintains a benchmark that at least 70 percent of students admitted will complete the program within two years, excluding withdrawals for non-academic reasons such as medical, financial, or personal circumstances.
4	Graduates will indicate that the program adequately prepared them for entry-level positions.	Graduate Exit Survey (Question 11) "Do you feel that the WCC Radiography Program prepared you for an entry-level position in a radiology department?"	Average score > 3 (5-point scale: 5 = strongly agree, 1=strongly disagree)	Second Year, 7th semester (Spring/Summer)	Program Director	2021: Average score 4.9 21 (95%) of 22 graduates responded 20 graduates (95%) Strongly agree 1 graduates (5%) Agree 2022: Average score 4.9 20 (100%) of 20 graduates responded 17 graduates (85%) Strongly agree 3 graduates (15%) Agree 2023: Average score 4.9 23 (100%) of 23 graduates responded 21 graduates (91%) Strongly agree 2 graduates (9%) Agree 2024: Average score 4.68 25 (100%) of 25 graduates responded 20 graduates (80%) Strongly agree 4 graduates (16%) Agree 1 graduate (4%) Neither Agree nor Disagree 2025: Average score 4.86 22 (88%) of 25 graduates responded 19 graduates (86%) Strongly agree 3 graduates (14%) Agree Graduate satisfaction is a critical measure of program effectiveness and perceived readiness for professional practice. The Graduate Exit Survey, specifically Question 11, assesses this outcome by asking graduates whether they believe the WCC Radiography Program prepared them for an entry-level position in a radiology department. The benchmark for success is an average score greater than 3 on a 5-point scale, where 5 represents "Strongly Agree." The Class of 2025 achieved an average score of 4.86, with 86 percent of respondents selecting "Strongly Agree" and 14 percent selecting "Agree." The response rate was 88 percent, with 22 of 25 graduates completing the survey. Three students did not participate due to missing the date the survey was administered, which coincided with a scheduled mock registry exam. To avoid this issue in future cohorts, faculty will ensure that all students are present and available to complete the survey as part of a dedicated and coordinated assessment session. This result reflects continued high satisfaction, following similarly strong scores from the previous four cohorts. The Classes of 2021, 2022, and 2023 each earned an average score of 4.9, with response rates of 95 to 100 percent. The Class of 2024 recorded a slightly lower average of 4.68, still well above the benchmark. Across all five years, 100 percent of responding graduates either agreed or strongly agreed that the program prepared them for entry-level positions, with only one neutral response recorded during the entire period. This consistently high level of satisfaction underscores the effectiveness of the program's curriculum, clinical education, and faculty support. The results confirm that graduates feel confident and competent as they transition into the workforce. Given these outcomes, no changes are recommended to the survey instrument or related instructional strategies. Continued use of this question will provide valuable insight into program quality from the graduate perspective and support ongoing program improvement efforts.	Program completion is a key indicator of student retention and overall program effectiveness. In accordance with JRCERT guidelines, the program maintains a benchmark that at least 70 percent of students admitted will complete the program within two years, excluding withdrawals for non-academic reasons such as medical, financial, or personal circumstances.

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5	Employers will indicate that the program graduates are adequately prepared for entry-level positions.	Radiography Student Professional Skills Evaluation "If an entry-level radiographer position was available within the department, I would consider hiring this student."	Average score > 3 (4-point scale)	Annually in June	Clinical Coordinator	2021 Average score 3.94 14 students (93%) received a score of 4 1 students (7%) received a score of 3 2022 Average score 3.82 16 students (80%) received a score of 4 4 students (20%) received a score of 3 2023 Average score 3.87 20 students (87%) received a score of 4 3 students (13%) received a score of 3 2024 Average score 3.92 22 (92%) students received a score of 4 2 (8%) students received a score of 3 2025 Average score 3.88 22 (88%) students received a score of 4 3 (12%) students received a score of 3	Employer satisfaction is a vital indicator of graduate preparedness and program effectiveness. Employers are asked to evaluate whether program graduates demonstrate the skills and professionalism expected of entry-level radiologic technologists. This outcome is assessed using a 4-point scale, with a benchmark of an average score greater than 3. Over the past five years, employer feedback has been consistently positive, with all cohorts exceeding the benchmark. The Class of 2025 received an average score of 3.88, with 88 percent of employers rating graduates at the highest level of 4, and the remaining 12 percent assigning a score of 3. This reflects continued employer confidence in the program's ability to produce competent, entry-level practitioners. The Class of 2024 achieved an average score of 3.92, while the Class of 2023 earned 3.87. Earlier cohorts—2022 and 2021—also demonstrated strong results, with average scores of 3.82 and 3.94, respectively. In each of these years, no employer rated a graduate below the benchmark level. These outcomes affirm that the program is consistently meeting employer expectations and preparing students with the clinical, technical, and professional skills necessary for successful employment. The high percentage of top ratings, particularly in the most recent years, suggests strong alignment between program outcomes and workforce needs. Given this ongoing success, no changes are recommended to the employer survey or current instructional strategies. The program should continue maintaining strong communication with clinical partners and employers to ensure that evolving expectations in radiologic practice are reflected in the curriculum.
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