

CNM ANNUAL STUDENT LEARNING ASSESSMENT REPORT

Due to the Student Academic Assessment Committee by October 15



PART 1: REPORT INFORMATION

Report Year and Contact Information			
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Academic Year	Contact Person	CNM Email	CNM Office Extension

Subject of this Report
HWPS--RADT_AAS--Radiologic Technology Degree

PART 2: CONTEXT IN WHICH THE ASSESSMENT TOOK PLACE

Program/Area Highlights and Successes
<p>(Wherever applicable, include course completion rates, job placement outcomes, and licensing examination pass rates. See the program information dashboard at https://livecnm.sharepoint.com/sites/Dashboards/SitePages/Program%20Information%20Dashboard.aspx (access restricted to CNM employees) and other reports at https://www.cnm.edu/depts/opie.)</p> <ol style="list-style-type: none">1. Students will achieve a 80% first time pass rate on the ARRT national board<ol style="list-style-type: none">a. Pass rate for the ARRT national boards between 7/01/17 – 6/30/18 – pass rate was 100% on first attempt. Average pass rate over previous 5 years is 93%. 5-Year Average pass rate has increased by 2%2. Students will pass a final lab evaluation with a score of 75% on a scale of 100%<ol style="list-style-type: none">a. All passed final lab evaluation with score 75% or better3. Students will pass a final clinical competence evaluation with 75% on a scaled score or 100%<ol style="list-style-type: none">a. All passed final clinical competence evaluation with 75% or better. <p>All Targets Met – No Action Required</p>

Changes Implemented During the Past Year in Support of Student Learning
<ul style="list-style-type: none">• Student fees increased in the first semester (Fall 2019) in the RADT cohorted program to allow the purchase of an Apple iPad 6th generation, 120gb, with durable case and keyboard, and external charging device. Students receive their brand new ipads the first week of class and use the technology

throughout the program in all classes and labs. While the PD uses Meraki to help the student manage their iPads, the iPad belongs to the student and they keep it for life even after exiting the RADT program.

- CNM provided funding to the RADT program to purchase Apple app licenses for “Navi Rad Pro” and “Notability” to lease to the RADT students while they are in the RADT program. Students interactively have the ability to record lectures with “Notability” and utilize a different teaching perspective with “Navi Rad Pro” in lab and in the classroom.
- Perkins funding provided the RADT program with an Apple TV for the classroom and 2 Apple iPads for the FT RADT faculty to use during all lectures and labs. The presentations have become much more interactive with the students with the provided technology.
- Continued use of software/online opportunities to give students more learning opportunities.
 - Use of CORECTEC: an online service where the students work on lessons and exercise; then take quizzes and exams that prepare those students for the national ARRT certification exam.
 - Continued to use Pre-Lecture Quizzes and exercises and placed them on Blackboard to facilitate student access for assessment

PART 3: REPORT ON ASSESSMENT OF STUDENT LEARNING

Assessment Method	Type of Assessment Tool	Population or Course(s) Assessed	Graduate Learning Outcome(s) Assessed	Mastery Level (E.g., “Minimum score of 3 on a rubric scaled 0-4” or “Minimum score of 75%”)	Targeted % Achieving Mastery	Outcome
1. RADT 1070L; RADT 1570L; Lab Final Exam Rubric: Performance Evaluation section, part E. “Position Protocol Applied” (max points= 2) RADT 2890; Weekly Student Performance Evaluation “Correctly positions the patient for the stated projection/position while conversing with the patient” (max points= 2)	Direct & Internal	RADT 1070L, RADT 1570L, RADT 2890	Students will demonstrate accurate radiographic positioning skills.	Overall class average of ≥70% with a score of “2: Meets expectations” Overall class average score of ≥70% with a score of 2.	91%	Target met

<p>2. RADT 1070L; RADT 1570L; Lab Final Exam Rubric: Image Evaluation section, part I. "Technical Factors" (max points= 2)</p> <p>RADT 2890 Weekly Student Performance Evaluation "Correctly chooses the technical factors for stated projection/position" (max points= 2)</p>	Direct & Internal	RADT 1070L, RADT 1570L, RADT 2890	Student will select appropriate radiographic technical factors	<p>Overall class average of $\geq 70\%$ with a score of "2: Meets expectations"</p> <p>Overall class average of $\geq 70\%$ with a score of 2</p>	89%	Target met
<p>3. RADT 1092 Patient History Taking Worksheet</p>	Direct & Internal	RADT 1092	Students will demonstrate oral communication	Overall class average of $\geq 70\%$.	100%	Target met
<p>4. RADT 1520 Assignment: Radiation Safety policy for operating room personnel - Grading rubric</p>	Direct & Internal	RADT 1520	Students will demonstrate effective <u>written communication</u> skills	Overall class average of $\geq 70\%$	74%	Target met
<p>5. RADT 1070L <u>or</u> 1570L <u>or</u> 1690 Practice of trauma exam using the Practice form</p> <p>RADT 2890 Competency Evaluation on ARRT-identified trauma exam</p>	Direct & Internal	RADT 1070L, RADT 1570L, RADT 2890	Students will perform <u>non-routine procedures</u>	70% of students will receive a score of $\geq 90\%$	96%	Target met

6. RADT 2010 Image Critique Form RADT 2890 Image critique Form	Direct & Internal	RADT 2010 and RADT 2890	Students will <u>evaluate images</u>	Overall class average of $\geq 70\%$ for activity	90%	Target met
7. RADT 1690 RADT 2890 • Attendance Logs • Absence Log Success Plan by Program Director	Direct & Internal	RADT 1690 and RADT 2890	Students practice professional behavior by <u>following the attendance policy</u>	90% of the students will have zero “no call- no show” occurrences during entire term	100%	Target met
8. RADT 2999 Capstone Survey	Direct & Internal	RADT 2999	Students will understand the <u>importance of professional development</u>	80% of students will have participated in at least 1 volunteer project OR became a member of a professional society while in the program	87%	Target met

Summary of Assessment Findings

Benchmark was met for all assessments.

Interpretation of Assessment Findings

1. While this benchmark was met, we feel it can be improved during the formative phase. We had added new ancillary equipment to the lab using Perkins funds to heighten the experience for the students and make the positioning practice more realistic. The implementation of the Navi Rad Pro app for the iPads will be used concurrently with the instruction during positioning lab. We will monitor these results next year and see if the equipment we incorporated shows an upward climb in the assessment results.

We are pleased with the results of the RADT 2890 assessment. **For the next year, we will increase our benchmark to 80%.**

2. Benchmark met. We will increase our benchmark for this area up to 75%.

We will incorporate a technique chart for the students to complete during these formative labs. The program upgraded the control console that now includes specific body part selection and AEC selection; this was not available previously. Hoping more emphasis and discussion on the technique selection will increase understanding on selecting appropriate technical factors.

RADT 2890: Having students spend 4 terms in clinical rotations proves that students have a good grasp on technical factors. We will raise this benchmark to 80%.

3. Benchmark met. Per the advisory committee, we will change this tool to the RADT 1570 Lab Practicum final where students will be scored based on their ability to verbally communicate all the components of AIDET.

4. Benchmark met. Students seemed to not understand the complete instructions on this assessment. Instructor will be more explicit in describing that **specific** details need to be included in a written policy.

5. Benchmark met. This assessment data collection was difficult to capture based on the fact that not every students received a practice trauma comp during the stated courses. Due to this inconsistency, we will use the RADT 1075 CPR Simulation II rubric.

6. Benchmark met. Students in the formative class expressed concern that there was not enough activity practicing image analysis. Instructor will incorporate more classroom activities and will utilize the iPads' Navi Rad Pro app.

7. Benchmark met: This benchmark is consistently met; therefore, we will change the Outcome to "Students practice professional behavior by demonstrating soft skills in the clinic". Class will continue with the Radiology Club and the emphasis on becoming an ASRT, NMSRT, or other professional society member. We will continue to perform community volunteer projects each fall and spring. Also students will voluntarily participate in the ASRT tour each Summer term.

8. Class will continue with the Radiology Club and the emphasis on becoming an ASRT, NMSRT, or other professional society member. We will continue to perform community volunteer projects each fall and spring. Also students will voluntarily participate in the ASRT tour each Summer term.

Action Plan in Support of Student Learning (Describe changes to be made that are based at least in part on the assessment interpretation. If the assessment did not yield useful information, describe changes to be made in the assessment methodology and/or criteria.)

1. For the next year, we will increase our benchmark to 80%.

2. We will increase our benchmark for this area up to 75%.

3. Per the advisory committee, we will change this tool to the RADT 1570 Lab Practicum final where students will be scored based on their ability to verbally communicate all the components of AIDET.

4. Instructor will be more explicit in describing that **specific** details need to be included in a written policy.

5. We will use the RADT 1075 CPR Simulation II rubric.
6. Instructor will incorporate more classroom activities and will utilize the iPads' Navi Rad Pro app.
7. We will change the Outcome to "Students practice professional behavior by demonstrating soft skills in the clinic"
8. No changes will be implemented

Please select all of the following that characterize the types of changes described in the above action plan:

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|--|---|---|
| <input checked="" type="checkbox"/> Assessment criteria revision | <input checked="" type="checkbox"/> Assessment methodology revision | <input checked="" type="checkbox"/> Assignment revision |
| <input type="checkbox"/> Budgetary reallocation | <input checked="" type="checkbox"/> Change in teaching approach | <input type="checkbox"/> Course content revision |
| <input type="checkbox"/> Curricular Revision | <input type="checkbox"/> Faculty training/development | <input checked="" type="checkbox"/> Process revision |

Recommendations, Proposals, and/or Funding Requests	Budget Needed
<p>Per the JRCERT, the accrediting agency for the RADT program, the students would benefit from a complete digital radiography suite that meets the industry standards. The current radiography suite is very limited in space, so turning the entire JS 202 classroom and lab into an imaging suite would behoove the students and they would have adequate space to practice their imaging and positioning skills.</p> <p>Upon the initial accreditation's site visit from the JRCERT the team reported:</p> <p>"The program may wish to consider the following suggestion:</p> <p>Explore funding opportunities to update the energized radiographic laboratory to comparable equipment utilized in the program's clinical settings. This would be beneficial to student clinical education and enhance student learning."</p>	<p>\$300, 000.00</p> <p>Click or tap here to enter text.</p>

PART 4: REMAINING YEARS IN CURRENT ASSESSMENT CYCLE PLAN (including any revisions) – **OR -- UPCOMING ASSESSMENT CYCLE PLAN** (if this was the final year)

Years of Full Cycle	Next Year's Assessment Focus (Describe how the next planned assessment is expected to provide information that can be used toward improving student learning.)
2018-2019	1. Students will be clinically competent 2. Students will demonstrate communication skills, 3. Students will employ critical thinking and problem solving, 4. Students will demonstrate professionalism.

Graduate Learning Outcomes to Be Assessed	Years in which Assessment Is Planned	Population/Courses to Be Assessed	Planned Assessment Approach
Students will demonstrate accurate radiographic positioning skills.	2018-2022	RADT 1070L, RADT 1570L, RADT 2890	Positioning rubric and weekly student performance evaluation, 80% achieving mastery
Student will select appropriate radiographic technical factors	2018-2022	RADT 1070L, RADT 1570L, RADT 2890	Positioning rubric and weekly student performance evaluation, 75% achieving mastery
Students will demonstrate oral communication	2018-2022	RADT 1570L	Verbal communication of AIDET
Students will demonstrate effective written communication skills	2018-2022	RADT 1520	Written assessment
Students will perform non-routine procedures	2018-2022	RADT 1075	CPR Simulation II Rubric
Students will evaluate images	2018-2022	RADT 2010 and RADT 2890	Image critique form
Students practice professional behavior by demonstrating soft skills in the clinic	2018-2022	RADT 2890	Soft skills grade from final clinic rotation
Students will understand the importance of professional development	2018-2022	RADT 2999	Capstone survey