

2007 MASTER PLAN/PROGRESS REPORT

Academic Program: BS Radiologic Technology

Person Responsible: Greg Bradley

Date Submitted: May 24, 2007

Mission: The program in Radiologic Technology is dedicated to providing educational opportunities, which prepare students for their future roles in the health care profession as radiographers. A clinical competency-based evaluation provides a uniform method of preparing the student to function as an integral member of the health care team in a variety of clinical situations

Institutional Mission Reference: The Bachelor of Science degree in Radiologic Technology supports the University's fundamental educational mission of offering a baccalaureate degree distinguished by academic excellence. The program engages in collaborative affiliation agreements with area medical establishments to promote cultural growth by providing student with opportunities of clinical experience for the program's clinical radiography courses.

Assessment Methods Utilized:

- Standardized Exam (nationally normed)
- Standardized Exam (state-normed)
- Major Field Examination
- Internally-developed Examination
- Student Opinion Survey (SOS)
- National Survey of Student Engagement (NSSE)
- Employer Survey
- Graduate Survey
- Alumni Survey
- Exit Survey/Interview/Exam
- Program-specific Survey
- Scoring of Essay
- Portfolio Evaluation
- Capstone Project
- Presentation
- Research Paper
- Research Project
- Course Summary
- Excel Spreadsheet
- Access Database
- Other - Please describe: Final Course Grade for RADT 367

Data Repository Location:

- Frasch Hall 226 – Radiologic Technology Office
- _____
- Frasch Hall 225 Faculty Member Office
- _____
- Frasch Hall 226A Radiologic Technology Program Dir. Office
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Student Learning Outcome 1: Graduates apply critical thinking in academic and professional environments.

<u>Expected Level of Achievement</u>	<u>Actual Data From Assessment</u>	<u>Actions/Decisions</u>
<p>90% of graduates pass the American Registry of Radiologic Technologist – Radiography Examination on first attempt.</p>	<p>ARRT: 100% pass rate of first time test takers in 2005 reported January 2006.</p>	<p>M Radiologic Technology Advisory committee continues to monitor outcome data.</p>
<p>80% of graduates completing the graduate questionnaire will indicate a 4 or higher (1-5 scale, 5 highest) on the following indicators</p>		
<p>23 “The program prepared me to select accurate exposure factors for common radiographic procedures.”</p>	<p>100% indicated a 4 or higher</p>	<p>M Radiologic Technology Advisory committee continues to monitor outcome data.</p>
<p>27 “The program prepared me to recognize emergency patient conditions and initiate first aid and basic life-support procedures.”</p>	<p>83% indicated a 4 or higher</p>	<p>M Radiologic Technology Advisory committee continues to monitor outcome data.</p>
<p>28 “The program prepared me to discern between acceptable and unacceptable radiographs.”</p>	<p>100% indicated a 4 or higher</p>	<p>M Radiologic Technology Advisory committee continues to monitor outcome data.</p>
<p>29 “The program prepared me to adapt standard procedures to accommodate the patient’s condition and other variables.”</p>	<p>83% indicated a 4 or higher</p>	<p>M Radiologic Technology Advisory committee continues to monitor outcome data.</p>
<p>31 “ The program prepared me to adapt exposure factors for various patient conditions, equipment, accessories and contrast media to maintain appropriate radiographic quality.”</p>	<p>100% indicated a 4 or higher</p>	<p>M Radiologic Technology Advisory committee continues to monitor outcome data.</p>
<p>32 “The program prepared me to recognize and adapt to the patient’s needs demonstrating understanding, compassion and tact in dealing with and safely caring for patients.”</p>	<p>92% indicated a 4 or higher</p>	<p>M Radiologic Technology Advisory committee continues to monitor outcome data.</p>

<p>80 % of employers completing the graduate employer follow-up questionnaires indicated a “4” on all 4 items of # 7.</p> <p><u>Modification</u> – modify standard procedures to accommodate patient condition and other variables.</p> <p><u>Adaptability</u> – adapts exposure factors for various patient conditions, equipment, accessories and contrast media to maintain appropriate radiographic quality.</p> <p><u>Evaluation</u>- evaluates radiographic images for appropriate positioning and image quality.</p> <p><u>Communication</u>- communicate effectively in the medical environment</p>	<p>82% indicates a 4</p> <p>82% indicates a 4</p> <p>82% indicates a 4</p> <p>73% indicates a 4</p>	<p>M Radiologic Technology Advisory committee continues to monitor outcome data.</p> <p>M Radiologic Technology Advisory committee continues to monitor outcome data.</p> <p>M Radiologic Technology Advisory committee continues to monitor outcome data.</p> <p>D Radiologic Technology Advisory committee is developing a new component of the clinical competency evaluation system to incorporate more clinical participation that is constructively evaluated providing feedback to the student (Documented Competency Maintenance)</p>
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Student Learning Outcome 2: Graduates formulate and express ideas effectively through oral, written, and/or technological communications in academic and professional environments.

<u>Expected Level of Achievement</u>	<u>Actual Data From Assessment</u>	<u>Actions/Decisions</u>
80% of students will complete the case analysis assignment for RADT 463 with the grade of 85% or better.	100% of the student received a grade of 85% or higher	M Radiologic Technology Advisory committee continues to monitor outcome data.
80% of students will complete RADT 367 with a grade of 85% or better.	93% of the students received a grade of 85% or higher	M Radiologic Technology Advisory committee continues to monitor outcome data.
80% of students will receive an average rating of 3.5 or higher (1-5 scale, 5 highest) on Form F-26 at end of RADT 461.	NO DATA Collected	R calculated for future classes, decision made to include as part of Outcome assessment at recent advisory committee meeting.
80 % of employers completing the graduate employer follow-up questionnaires indicated a “4” on all 4 items of # 7.	82% indicates a 4	M Radiologic Technology Advisory committee continues to monitor outcome data.
<u>Modification</u> – modify standard procedures to accommodate patient condition and other variables.	82% indicates a 4	M Radiologic Technology Advisory committee continues to monitor outcome data.
<u>Adaptability</u> – adapts exposure factors for various patient conditions, equipment, accessories and contrast media to maintain appropriate radiographic quality.	82% indicates a 4	M Radiologic Technology Advisory committee continues to monitor outcome data.
<u>Evaluation</u> - evaluates radiographic images for appropriate positioning and image quality.	73% indicates a 4	D Radiologic Technology Advisory committee is developing a new component of the clinical competency evaluation system to incorporate more clinical participation that is constructively evaluated providing feedback to the student (Documented Competency Maintenance)
<u>Communication</u> - communicate effectively in the medical environment		

Student Learning Outcome 3: Graduates analyze the global community to make sound judgments in academic and professional environments.

<u>Expected Level of Achievement</u>	<u>Actual Data From Assessment</u>	<u>Actions/Decisions</u>
RADT 462 Cultural Diversity Project	NO DATA COLLECTED	R calculated for future classes, decision made to include as part of Outcome assessment at recent advisory committee meeting.
Program EXIT interview/questionnaire	NO DATA COLLECTED	
Embedded Test Question in RADT 462	NO DATA COLLECTED	

Student Learning Outcome 4: Graduates will determine and apply the principles of radiation protection for patient, self, and others.

<u>Expected Level of Achievement</u>	<u>Actual Data From Assessment</u>	<u>Actions/Decisions</u>
<p>80% of graduates completing the graduate questionnaire will indicate a 4 or higher (1-5 scale, 5 highest) on item # 24</p> <p>“The program prepared to determine and apply radiation protection for the patient, self and others.”</p>	<p>100% indicated a 4 or higher</p>	<p>M Radiologic Technology Advisory committee continues to monitor outcome data.</p>
<p>80 % of employers completing the graduate employer follow-up questionnaires indicated a “4” on the radiation protection item of # 6.</p>	<p>100% indicated a 4 or higher</p>	<p>M Radiologic Technology Advisory committee continues to monitor outcome data.</p>
<p><u>ARRT Results</u> -Graduates will score within one Standard deviation of the national average on the ARRT radiation protection section.</p>	<p>MSU graduates scored and average of 8.5 out of 10 on this section of the ARRT examination. The national average was 8.5 on this section of the ARRT examination. The standard deviation for this section is .9</p>	<p>M Radiologic Technology Advisory committee continues to monitor outcome data.</p>

Student Learning Outcome 5: Graduates cooperate with health care team members in meeting the basic needs of individuals in providing patient care during the implementation of the radiography process.

<u>Expected Level of Achievement</u>	<u>Actual Data From Assessment</u>	<u>Actions/Decisions</u>
<p>80% of graduates completing the graduate questionnaire will indicate a 4 or higher (1-5 scale, 5 highest) on item 32 “ The program prepared me to recognize and adapt to the patient’s needs demonstrating understanding, compassion and tact in dealing with and safely caring for patients.”</p>	<p>92% indicated a 4 or higher</p>	<p>M Radiologic Technology Advisory committee continues to monitor outcome data.</p>
<p>80 % of employers completing the graduate employer follow-up questionnaires indicated a “4” on the patient-tech relationship item of # 6.</p>	<p>82% indicated a 4</p>	<p>M Radiologic Technology Advisory committee continues to monitor outcome data.</p>
<p><u>ARRT Results</u> -Graduates will score within one Standard deviation of the national average on the ARRT radiation protection section</p>	<p>MSU graduates scored and average of 8.8 out of 10 on this section of the ARRT examination. The national average was 8.8 on this section of the ARRT examination. The standard deviation for this section is .8</p>	<p>M Radiologic Technology Advisory committee continues to monitor outcome data.</p>