Discipline	Course Number	Title
Magnetic Resonance Imaging	165	MRI 165 07/31/2019-MRI Clinical Education III
Division	Department	Faculty Preparer
Health Sciences	Allied Health	Catherine Blaesing
Date of Last Filed Assessment Report		

I. Review previous assessment reports submitted for this course and provide the following information.

1. Was this course previously assessed and if so, when?

   No

2. Briefly describe the results of previous assessment report(s).

   3.

4. Briefly describe the Action Plan/Intended Changes from the previous report(s), when and how changes were implemented.

   5.

II. Assessment Results per Student Learning Outcome

Outcome 1: Demonstrate clinical competency in performing magnetic resonance (MR) procedures of the musculoskeletal system.

- Assessment Plan

    o Assessment Tool: Departmental Clinical Evaluation Form

    o Assessment Date: Spring/Summer 2019

    o Course section(s)/other population: All sections

    o Number students to be assessed: All students

    o How the assessment will be scored: Item analysis of numerical data from the Clinical Evaluation Rubric

    o Standard of success to be used for this assessment: 90% of the students will score 80% or higher on the Clinical Evaluation Rubric.

o   Who will score and analyze the data: Departmental Faculty

1. Indicate the Semester(s) and year(s) assessment data were collected for this report.

Fall (indicate years below)	Winter (indicate years below)	SP/SU (indicate years below)
		2017, 2018, 2016

2. Provide assessment sample size data in the table below.

# of students enrolled	# of students assessed
17	14

3. If the number of students assessed differs from the number of students enrolled, please explain why all enrolled students were not assessed, e.g. absence, withdrawal, or did not complete activity.

All students who completed this course were included in this assessment.

4. Describe how students from all populations (day students on campus, DL, MM, evening, extension center sites, etc.) were included in the assessment based on your selection criteria.

All students who completed this course were included in this assessment.

5. Describe the process used to assess this outcome. Include a brief description of this tool and how it was scored.

Item analysis of numerical data from the Clinical Evaluation Rubric.

6. Briefly describe assessment results based on data collected for this outcome and tool during the course assessment. Discuss the extent to which students achieved this learning outcome and indicate whether the standard of success was met for this outcome and tool.

Met Standard of Success: No

According to the analysis of the entire assessment tool, 11/14 (78%) scored 80% or above, meaning we did not meet the standard of success.

However, this assessment does not reflect what the students achieved on the ARRT registry exam. In order to sit for the registry exam, all requirements in this class must be satisfactorily met.

The average score was 96.25%. This is based on the Course Performance report for years 2018 and 2019. Grade information is not available in Blackboard for 2016 and 2017, and we are unable to restore it in percentage form. Data from 2018 and 2019 was used instead. Empirical data from 2016 and 2017 reflect the

goal of 80% was achieved, since 99% of the students received a certificate from WCC for this program. To receive the certificate, an overall grade of 76% must be attained.

7. Based on your interpretation of the assessment results, describe the areas of strength in student achievement of this learning outcome.

The assessment results indicate that student achievement was strong and exceeded expectation.

8. Based on your analysis of student performance, discuss the areas in which student achievement of this learning outcome could be improved. If student met standard of success, you may wish to identify your plans for continuous improvement.

The plan for continuous improvement includes adopting the 2020 and beyond American Registry of Radiologic Technologists (ARRT) recommendations for MRI Musculoskeletal scanning requirements.

Outcome 2: Demonstrate clinical competency in performing magnetic resonance (MR) procedures of the abdomen.

- Assessment Plan

    o Assessment Tool: Departmental Clinical Evaluation Form

    o Assessment Date: Spring/Summer 2019

    o Course section(s)/other population: All sections

    o Number students to be assessed: All students

    o How the assessment will be scored: Item analysis of numerical data from the Clinical Evaluation Rubric

    o Standard of success to be used for this assessment: 90% of the students will score 80% or higher on the Clinical Evaluation Rubric.

    o Who will score and analyze the data: Departmental Faculty

1. Indicate the Semester(s) and year(s) assessment data were collected for this report.

Fall (indicate years below)	Winter (indicate years below)	SP/SU (indicate years below)
		2018, 2017, 2016

2. Provide assessment sample size data in the table below.

# of students enrolled	# of students assessed

17	14

3. If the number of students assessed differs from the number of students enrolled, please explain why all enrolled students were not assessed, e.g. absence, withdrawal, or did not complete activity.

All students who completed this course were included in this assessment.

4. Describe how students from all populations (day students on campus, DL, MM, evening, extension center sites, etc.) were included in the assessment based on your selection criteria.

All students who completed this course were included in the assessment.

5. Describe the process used to assess this outcome. Include a brief description of this tool and how it was scored.

Numerical analysis of the Clinical Evaluation Rubric.

6. Briefly describe assessment results based on data collected for this outcome and tool during the course assessment. Discuss the extent to which students achieved this learning outcome and indicate whether the standard of success was met for this outcome and tool.

Met Standard of Success: No

According to the analysis of the entire assessment tool, 11/14 (78%) scored 80% or above, meaning we did not meet the standard of success.

However, this assessment does not reflect what the students achieved on the ARRT registry exam. In order to sit for the registry exam, all requirements in this class must be satisfactorily met.

The average score was 96.25%. This is based on the Course Performance report for years 2018 and 2019. Grade information is not available in Blackboard for 2016 and 2017, and we are unable to restore it in percentage form. Data from 2018 and 2019 was used instead. Empirical data from 2016 and 2017 reflect the goal of 80% was achieved, since 99% of the students received a certificate from WCC for this program. To receive the certificate, an overall grade of 76% must be attained.

7. Based on your interpretation of the assessment results, describe the areas of strength in student achievement of this learning outcome.

The assessment results indicate that student achievement was strong and exceeded expectation.

8. Based on your analysis of student performance, discuss the areas in which student achievement of this learning outcome could be improved. If student met standard of success, you may wish to identify your plans for continuous improvement.

The plan for continuous improvement includes adopting the 2020 and beyond ARRT recommendations for MRI Abdominal scanning requirements.

Outcome 3: Demonstrate clinical competency in performing magnetic resonance (MR) procedures of the pelvis.

- Assessment Plan

    o Assessment Tool: Departmental Clinical Evaluation Form

    o Assessment Date: Spring/Summer 2019

    o Course section(s)/other population: All sections

    o Number students to be assessed: All students

    o How the assessment will be scored: Item analysis of numerical data from the Clinical Evaluation Rubric

    o Standard of success to be used for this assessment: 90% of the students will score 80% or higher on the Clinical Evaluation Rubric.

    o Who will score and analyze the data: Departmental Faculty

1. Indicate the Semester(s) and year(s) assessment data were collected for this report.

Fall (indicate years below)	Winter (indicate years below)	SP/SU (indicate years below)
		2018, 2017, 2016

2. Provide assessment sample size data in the table below.

# of students enrolled	# of students assessed
17	14

3. If the number of students assessed differs from the number of students enrolled, please explain why all enrolled students were not assessed, e.g. absence, withdrawal, or did not complete activity.

All students who completed this course were included in the assessment.

4. Describe how students from all populations (day students on campus, DL, MM, evening, extension center sites, etc.) were included in the assessment based on your selection criteria.

All students who completed this course were included in the assessment.

5. Describe the process used to assess this outcome. Include a brief description of this tool and how it was scored.

Item analysis of numerical data from the Clinical Evaluation Rubric.

6. Briefly describe assessment results based on data collected for this outcome and tool during the course assessment. Discuss the extent to which students achieved this learning outcome and indicate whether the standard of success was met for this outcome and tool.

Met Standard of Success: No

According to the analysis of the entire assessment tool, 11/14 (78%) scored 80% or above, meaning we did not meet the standard of success.

However, this assessment does not reflect what the students achieved on the ARRT registry exam. In order to sit for the registry exam, all requirements in this class must be satisfactorily met.

The average score was 96.25%. This is based on the Course Performance report for years 2018 and 2019. Grade information is not available in Blackboard for 2016 and 2017, and we are unable to restore it in percentage form. Data from 2018 and 2019 was used instead. Empirical data from 2016 and 2017 reflect the goal of 80% was achieved, since 99% of the students received a certificate from WCC for this program. To receive the certificate, an overall grade of 76% must be attained.

7. Based on your interpretation of the assessment results, describe the areas of strength in student achievement of this learning outcome.

The assessment results indicate that student achievement was strong and exceeded expectation.

8. Based on your analysis of student performance, discuss the areas in which student achievement of this learning outcome could be improved. If student met standard of success, you may wish to identify your plans for continuous improvement.

The plan for continuous improvement includes adopting the 2020 and beyond ARRT recommendations for MRI Pelvic scanning requirements.

III. Course Summary and Intended Changes Based on Assessment Results

1. Based on the previous report's Intended Change(s) identified in Section I above, please discuss how effective the changes were in improving student learning.

   There were no previous assessments or suggested changes.

2. Describe your overall impression of how this course is meeting the needs of students. Did the assessment process bring to light anything about student achievement of learning outcomes that surprised you?

   Since patient MRI exams vary greatly at the multiple clinical sites, the students were evaluated on the number of competencies, rather than on name-specific exams completed. These adjustments to the clinical requirements were made to meet the needs of the students and by suggestion received from students.

3. Describe when and how this information, including the action plan, was or will be shared with Departmental Faculty.

   All information from this report will be shared with MRI department faculty. Faculty will be given a chance to comment on the contents of this report.

4.
   Intended Change(s)

Intended Change	Description of the change	Rationale	Implementation Date
Other: Master Syllabus	The master syllabus should be changed to reflect the number of exam competencies required and not named specific exams.	The rationale for this change is that students were finding it difficult to meet the expectation for the named specific exams, but at the same time, they could show competency in exams that were not yet part of the curriculum.	2020
Other: Standard of success	The standard of success on the master syllabus will	The ARRT standard for passing is 76%, so updating the	2020

	be updated to: 75% of the students will score 76% or higher on the Clinical Evaluation Rubric.	standard of success to reflect this will provide a more accurate assessment of the students' achievement.	

5. Is there anything that you would like to mention that was not already captured?

It should be mentioned that the proposed change to the curriculum was made within the 2017 academic year. The process to implement changes in the master syllabus was unknown to the instructors at that time, or the change to the master syllabus would have been requested.

III. Attached Files

MRI 165 2019 Grade Distribution
ARRT Exam Results
MRI 165 2018 Course Performance
MRI 165 2019 Course Performance
MRI 165 2018 Grade Distribution

Faculty/Preparer:	Catherine Blaesing	**Date:** 08/22/2019
Department Chair:	Kristina Sprague	**Date:** 08/22/2019
Dean:	Valerie Greaves	**Date:** 08/23/2019
Assessment Committee Chair:	Shawn Deron	**Date:** 03/02/2020