

Course Assessment Report
Washtenaw Community College

Discipline	Course Number	Title
Magnetic Resonance Imaging	125	MRI 125 07/22/2019-MRI Clinical Education I
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 proficiency in magnetic resonance (MR) safety and protective practices associated with MR procedures.

- Assessment Plan
 - Assessment Tool: Clinical Evaluation Rubric
 - Assessment Date: Fall 2018
 - Course section(s)/other population: All course sections
 - Number students to be assessed: All students
 - How the assessment will be scored: Item analysis of numerical data from the Clinical Evaluation Rubric
 - Standard of success to be used for this assessment: 90% of students will score 80% or higher on the Clinical Evaluation Rubric.

- 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
23	20

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.

One student was dismissed from the program for behavioral issues at the clinical site prior to completion of this course. One student was dismissed from the program due to MRI safety issues at the clinical site and failure to comply with site policies. One student voluntarily left the program prior to completing this course due to a family health issue.

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: Yes

100% of students scored above 80%, meeting the standard of success, with an average score of 94.4%.

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

Student strength in achievement for this learning outcome exceeded expectation. Any student who violated MR safety practices on more than one occasion was dismissed from the program for Level 2 violations and failure to comply with the signed safety practice acknowledgement statement. One of the strengths of the program overall is the time spent in boot camp on MR safety as part of this class.

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 new MRI clinical and didactic requirement by the American Registry of Radiology Technology (ARRT) effective with the 2020 class. During boot camp, students will have a role-play exercise with multiple scenarios for MR safety concerns. This will start with the Fall 2020 class as well.

Outcome 2: Demonstrate proficiency in operating Magnetic Resonance Imaging (MRI) equipment and ancillary devices.

- Assessment Plan
 - Assessment Tool: Clinical Evaluation Rubric
 - Assessment Date: Fall 2018
 - Course section(s)/other population: All course sections
 - Number students to be assessed: All students
 - How the assessment will be scored: Item analysis of numerical data from the Clinical Evaluation Rubric
 - Standard of success to be used for this assessment: 90% of students will score 80% or higher on the Clinical Evaluation Rubric.
 - 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
23	20

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.

One student was dismissed from the program for behavioral issues at the clinical site prior to completion of this course. One student was dismissed from the program due to MRI safety issues at the clinical site and failure to comply with site policies. One student voluntarily left the program prior to completing this course due to a family health issue.

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: Yes

100% of students scored above 80%, meeting the standard of success, with an average score of 94.4%.

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

Based on the interpretation of the assessment results, student achievement in this learning outcome was exceeded, and all students who finished this course continued in the program.

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.

Based on feedback from student classes, recommended clinical competencies were changed from specific anatomy to a generalized number of competencies. This was done to allow for the differences in clinical site patient study diversity.

Outcome 3: Demonstrate proficiency in performing routine Magnetic Resonance Imaging (MRI) procedures.

- Assessment Plan
 - Assessment Tool: Clinical Evaluation Rubric
 - Assessment Date: Fall 2018
 - Course section(s)/other population: All course sections
 - Number students to be assessed: All students
 - How the assessment will be scored: Item analysis of numerical data from the Clinical Evaluation Rubric
 - Standard of success to be used for this assessment: 90% of students will score 80% or higher on the Clinical Evaluation Rubric.
 - 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, 2016, 2018		

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

# of students enrolled	# of students assessed
23	20

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.

One student was dismissed from the program for behavioral issues at the clinical site prior to completion of this course. One student was dismissed from the program due to MRI safety issues at the clinical site and failure to comply with site policies. One student voluntarily left the program prior to completing this course due to a family health issue.

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.

A rubric was created to include clinical performance evaluations, clinical study competencies, general patient care requirements, Level One and Level 2 basic clinical competencies, and ASRT module scores.

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: Yes

100% of students scored above 80%, meeting the standard of success, with an average score of 94.4%.

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

All students were able to complete required clinical competencies which included MR operator set parameters within the semester.

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 continuous improvement plan will continue to encourage students in MR basic equipment functions. A donation of a "power injector" was made to the college and will be utilized during boot camp to instruct students on how this equipment functions.

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.

N/A

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?

This course is meeting the needs of student requirements for entry-level students. It is important to note that continuous improvement plans will further assist in student learning.

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

Department faculty will be given a copy of this report and an opportunity to comment on the contents. A process of meeting at the end of the year for all MRI teaching staff to review and make recommendations for changes to the program will continue.

- 4.

Intended Change(s)

Intended Change	Description of the change	Rationale	Implementation Date
Course Assignments	During boot camp for this course, students will be assigned a role-playing exercise with multiple scenarios as an introduction to MRI patient screening for safety concerns.	The rationale for this includes suggestions from clinical instructors and input from clinical site personnel.	2020
Other: Equipment Function	Students will be instructed during boot camp on the proper use of the "power injector" used as part of clinical scanning the clinical site.	Recent donation the WCC of a "power injector" used in MRI/CT for clinical scanning allows for an introduction to this equipment prior to students presenting at the clinical site.	2020
Other: ARRT requirements	Review of course requirements by ARRT is in process, and changes will be made to the program to meet these requirements for Fall 2020.	The rationale for this is to allow WCC students to continue to take this national recognized registry for MRI Technology.	2020

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

6.

III. Attached Files

[MRI 125 data](#)
[MRI 125 Rubric](#)

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: 02/17/2020