

Course Assessment Report
Washtenaw Community College

Discipline	Course Number	Title
Radiography	215	RAD 215 04/06/2022- Radiography of the Skull
College	Division	Department
	Health Sciences	Allied Health
Faculty Preparer		William Nelson
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?

<p>Yes</p> <p>Fall 2008</p>

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

<p>Two outcomes were used for the previous assessment report.</p> <p>Outcome 1: Identify the pertinent anatomy and external landmarks on radiographic images of the skull. For this outcome, data from a unit test on the facial bones and the final exam indicated students had the ability to identify skeletal anatomy and topographic landmarks.</p> <p>Outcome 2: Demonstrate the ability to obtain quality radiographs of the skull. Data from lab evaluations indicated students are proficient in performing imaging of the skull in the lab setting.</p>

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

<p>Intended changes included implementing homework assignments in Blackboard and including lecture modules; both were implemented.</p>
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II. Assessment Results per Student Learning Outcome

Outcome 1: Identify the pertinent anatomy and external landmarks on radiographic images of the skull.

- Assessment Plan

- Assessment Tool: Departmental final examination on Blackboard
- Assessment Date: Winter
- Course section(s)/other population: Three sections of this course is offered per year
- Number students to be assessed: Number of students to be assessed is approximately 12 students per section
- How the assessment will be scored:
- Standard of success to be used for this assessment:
- Who will score and analyze the data:

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)
2021		

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

# of students enrolled	# of students assessed
21	19

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.

Two students did not complete the assignment.

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.

There are three sections for this course. Each section is taught on the same day, and all students were included.

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

The standard of success was not stated on the previous master syllabi and the faculty preparer has retired.

Rather than using the course final exam, I used an assignment in Blackboard that specifically focused on the student's ability to identify radiographic positioning lines and topographic landmarks for imaging of the skull. A maximum of nineteen points (19) were allotted. The scores were calculated based on the answers provided.

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

The standard of success was not stated on the previous master syllabi and the faculty preparer has retired.

I chose to use the following standard of success for this outcome: 100% of the students will achieve a score of 80% or higher on this assignment. Based on this standard, 14 students achieved a score of 90% or above and 5 students achieved a score of 80% or above. Therefore, students met the defined standard of success.

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

Based on the results of this assessment, this cohort demonstrated the ability to identify facial and topographic landmarks commonly used for radiographic imaging of the skull. The lowest score for this assignment was 16 out of 19.

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.

This is the first time I have used this tool to assess this course. The master syllabus has been updated to reflect the new tool used for this assessment report. I will need an additional assessment cycle before implementing plans for continuous improvement.

Outcome 2: Demonstrate the ability to obtain quality radiographs of the skull.

- Assessment Plan
 - Assessment Tool: Checklist from laboratory performance
 - Assessment Date: Winter
 - Course section(s)/other population: Three sections of this course is offered per year

- Number students to be assessed: Number of students to be assessed is approximately 12 students per section
- How the assessment will be scored:
- Standard of success to be used for this assessment:
- Who will score and analyze the data:

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)
2021		

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

# of students enrolled	# of students assessed
21	21

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 enrolled students were assessed for this outcome.

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.

There are three sections for this course. Each section is taught on the same day, and all students were included.

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

The standard of success was not stated on the previous master syllabi and the faculty preparer has retired.

Rather than using the original assessment tool, I used an image evaluation rubric created in Blackboard. A maximum of twenty-seven points (27) possible for this evaluation.

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

The standard of success was not stated on the previous master syllabi and the faculty preparer has retired.

I chose to use the following standard of success for this outcome: 100% of the students will achieve a score of 80% or higher on the image evaluation. Based on this standard, 20 students achieved a score of 90% or above and 1 student achieved a score of 80% or above. Therefore, students met the defined standard of success.

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

Based on the results of this assessment, this cohort demonstrated the ability to create quality radiographic images of the skull. The lowest score for this evaluation was 25 out of 27.

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.

This is the first time I have used this tool to assess this course. The master syllabus has been updated to reflect the new tool used for this assessment report. As stated earlier, I will need an additional assessment cycle before implementing plans for continuous improvement.

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.

No changes were indicated on the last assessment report.

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?

RAD 215 is meeting the students' needs by teaching them the skills necessary to identify positioning landmarks and taking quality radiographic images of the skull in the lab setting. Students are then required to perform specific radiographic procedures of the skull in the clinical setting on patients. Students must demonstrate competency when performing these procedures and are evaluated by their assigned clinical instructor.

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

The results of this assessment will be shared with program faculty during our regular program faculty meeting.
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- 4.

Intended Change(s)

Intended Change	Description of the change	Rationale	Implementation Date
Other: Update master syllabus	Remove and update the current student learning outcomes and assessment tools.	The changes will provide a more comprehensive assessment of the course.	2022

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

N/A

III. Attached Files

[Image Evaluation Data](#)

[Positioning Landmarks Data](#)

Faculty/Preparer: William Nelson **Date:** 04/12/2022

Department Chair: Kristina Sprague **Date:** 04/19/2022

Dean: Shari Lambert **Date:** 04/21/2022

Assessment Committee Chair: Shawn Deron **Date:** 06/13/2022

COURSE ASSESSMENT REPORT

I. Background Information

1. Course assessed:
 Course Discipline Code and Number: RAD 215
 Course Title: Radiography of the Skull
 Division/Department Codes: ALHD/RAD

2. Semester assessment was conducted (check one):
 Fall 2008
 Winter 20
 Spring/Summer 20__

3. Assessment tool(s) used: check all that apply.
 Portfolio
 Standardized test
 Other external certification/licensure exam (specify):
 Survey
 Prompt
 Departmental exam
 Capstone experience (specify):
 Other (specify): Lab Positioning evaluation (Basic skull series)

4. Have these tools been used before?
 Yes
 No

If yes, have the tools been altered since its last administration? If so, briefly describe changes made.
 Yes - as the new instructor for this class, I have changed exam questions and the evaluation tool used in the lab setting.

5. Indicate the number of students assessed/total number of students enrolled in the course.
 35

6. Describe how students were selected for the assessment.
 The entire class was used for the assessment.

II. Results

1. Briefly describe the changes that were implemented in the course as a result of the previous assessment.
 This is my first assessment of the course as the new instructor.

2. List each outcome that was assessed for this report exactly as it is stated on the course master syllabus.
 1. *Identify the pertinent anatomy and external landmarks on radiographic images of the skull.*
 2. *Demonstrate the ability to obtain quality radiographs of the skull.*

3. Briefly describe assessment results based on data collected during the course assessment, demonstrating the extent to which students are achieving each of the learning outcomes listed above. ***Please attach a summary of the data collected.***
Outcome 1: Data from facial bones post-tests and final exam indicate students have the ability to identify skeletal anatomy and topographic landmarks from radiographic images.

Outcome 2: Data from lab evaluations indicated students are proficient in performing skull radiography in the lab setting.

4. For each outcome assessed, indicate the standard of success used, and the percentage of students who achieved that level of success. ***Please attach the rubric/scoring guide used for the assessment.***
 For the basic skull positioning lab, 95% of the class scored 90% or higher on their image evaluation form.

COURSE ASSESSMENT REPORT

- Describe the areas of strength and weakness in students' achievement of the learning outcomes shown in assessment results.

Strengths: Based on the results from this assessment, students have the ability to identify skeletal anatomy of the skull in a variety of projections. This is a very important skill to possess when performing these procedures in the clinical setting. Students performed well in the lab setting and were able to manipulate the radiographic equipment and position skull phantoms to produce quality diagnostic images. These skills are essential when performing the actual procedure on a real patient.

III. Changes influenced by assessment results

- If weaknesses were found (see above) or students did not meet expectations, describe the action that will be taken to address these weaknesses.

- Identify intended changes that will be instituted based on results of this assessment activity (check all that apply). Please describe changes and give rationale for change.

a. Outcomes/Assessments on the Master Syllabus
Change/rationale:

b. Objectives/Evaluation on the Master Syllabus
Change/rationale:

c. Course pre-requisites on the Master Syllabus
Change/rationale:

d. 1st Day Handouts
Change/rationale:

e. Course assignments
Change/rationale: Homework assignments will change from handouts in class to Blackboard assignments.

f. Course materials (check all that apply)
 Textbook
 Handouts
 Other: Lecture modules will be instituted in the '09 fall semester

g. Instructional methods
Change/rationale:

h. Individual lessons & activities
Change/rationale:

- What is the timeline for implementing these actions? These changes will be implemented in the '09 fall semester.

IV. Future plans

- Describe the extent to which the assessment tools used were effective in measuring student achievement of learning outcomes for this course.

Both assessment tools used were helpful in assessing the content areas specified in the learning outcomes.

- If the assessment tools were not effective, describe the changes that will be made for future assessments.

- Which outcomes from the master syllabus have been addressed in this report?

All X Selected _____

If "All", provide the report date for the next full review: Fall 2011.

If "Selected", provide the report date for remaining outcomes: _____.

COURSE ASSESSMENT REPORT

Submitted by:

Print: William Nelson Signature: [Signature] Date: 5-20-09
Faculty/Preparer

Print: Connie Foster Signature: [Signature] Date: 5/21/09
Department Chair

Print: Granville Lee Signature: [Signature] Date: 5/21/09
Dean/Administrator



Washtenaw
COMMUNITY COLLEGE

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RADIOGRAPHY OF THE SKULL SECTIONS 01, 02, & 03 FALL 2008 (RAD215MAINWNF08) > CONTROL PANEL > GRADE CENTER > COLUMN STATISTICS



Column Statistics

Column F/E Skull (Homework/PositioningE Go

Users who are unavailable are not included in column statistics. To include them, select the check box and click **Refresh**. To view statistics for another column, select the column name and click **Go** or click the next or previous arrows to navigate sequentially.

Column F/E Skull (Homework/PositioningEvals.name)

Points Possible 125.0

Description

Statistics		Status Distribution		Grade Distribution	
Count	35	Null	0	greater than 100	0
Minimum Value	96.00	In Progress	0	90 - 100	33
Maximum Value	125.00	Needs Grading	0	80 - 89	1
Range	29.00	Exempt	0	70 - 79	1
Average	120.23			60 - 69	0
Median	120.00			50 - 59	0
Standard Deviation	5.60			40 - 49	0
Variance	31.38			30 - 39	0
				20 - 29	0
				10 - 19	0
				0 - 9	0
				less than 0	0

Include unavailable users in statistics