

**Course Assessment Report
Washtenaw Community College**

Discipline	Course Number	Title
Radiography	290	RAD 290 12/11/2014- International Studies in Radiography
Division	Department	Faculty Preparer
Math, Science and Health	Allied Health	Jim Skufis
Date of Last Filed Assessment Report		

I. Assessment Results per Student Learning Outcome

Outcome 1: Perform radiographic examinations of human and animal mummy bundles, disarticulated skeletal remains and artifacts.

- Assessment Plan
 - Assessment Tool: Radiographs as logged from the field site.
 - Assessment Date: Spring/Summer 2013
 - Course section(s)/other population: all
 - Number students to be assessed: all
 - How the assessment will be scored: Departmentally-developed rubric
 - Standard of success to be used for this assessment: Students must have a 95% image usability rate
 - Who will score and analyze the data: Radiography program 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)
		2012

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

# of students enrolled	# of students assessed
6	6

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 enrolled were assessed.

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.

Only one section, and all students enrolled were assessed.

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

A departmentally-developed rubric was used to assess the usability of X-Ray images taken by student in the field. Usability of the image was judged by the project leader and the principle researcher at the field site. If the image was judged to not be usable, the student was asked to repeat it. At the end of the day, the total number of images, total number of usable images, and the number of unusable images was recorded from the Radiograph Log used by the research site to record X-ray images taken. The total number of usable images for the entire project was divided by the total number of images taken for the entire project to determine the image usability rate.

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 image usability rate exceeded 95%, so the learning outcome was achieved.

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

Based on my interpretation of these results, and my own observations, students were very much able to make usable images of this material with little difficulty.

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.

Some of the images counted were not taken by the students enrolled in the class, and there was no way to distinguish these.

Outcome 2: Demonstrate operating knowledge of radiographic equipment.

- Assessment Plan
 - Assessment Tool: Radiographs as logged from the field site.
 - Assessment Date: Spring/Summer 2013
 - Course section(s)/other population: all
 - Number students to be assessed: all
 - How the assessment will be scored: Departmentally-developed rubric
 - Standard of success to be used for this assessment: Students must have a 95% image usability rate
 - Who will score and analyze the data: Radiography program 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)
		2012

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

# of students enrolled	# of students assessed
6	6

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 enrolled were assessed.

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 was only one section, and all students enrolled were assessed.

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

A departmentally-developed rubric was used to assess the usability of X-Ray images taken by student in the field. Usability of the image was judged by the project leader and the principle researcher at the field site. If the image was judged to not be usable, the student was asked to repeat it. At the end of the day, the total number of images, total number of usable images, and the number of unusable

images was recorded from the Radiograph Log used by the research site to record X-ray images taken. The total number of usable images for the entire project was divided by the total number of images taken for the entire project to determine the image usability rate.

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 image usability rate exceeded 95%, so students did achieve this learning outcome.

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

Based on my interpretation of these results, and my own observations, students were very much able to use the portable and fixed imaging equipment with little difficulty.

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.

Some of the images counted were not taken by the students enrolled in the class, and there was no way to distinguish these.

Outcome 3: Demonstrate operating knowledge of hand development of radiographic film.

- Assessment Plan
 - Assessment Tool: Radiographs as logged from the field site.
 - Assessment Date: Spring/Summer 2013
 - Course section(s)/other population: all
 - Number students to be assessed: all
 - How the assessment will be scored: Departmentally-developed rubric
 - Standard of success to be used for this assessment: Students must have a 95% image usability rate
 - Who will score and analyze the data: Radiography program 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)
		2012

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

# of students enrolled	# of students assessed
6	6

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 enrolled were assessed.

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 was only one section, and all students enrolled were assessed.

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

A departmentally-developed rubric was used to assess the usability of X-Ray images taken by student in the field. Usability of the image was judged by the project leader and the principle researcher at the field site. If the image was judged to not be usable, the student was asked to repeat it. At the end of the day, the total number of images, total number of usable images, and the number of unusable images was recorded from the Radiograph Log used by the research site to record X-ray images taken. The total number of usable images for the entire project was divided by the total number of images taken for the entire project to determine the image usability rate.

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 image usability rate exceeded 95%, so students achieved this learning outcome.

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

Based on my interpretation of these results, and my own observations, students were very much able to hand-process the X-ray film in the facility's darkroom with little difficulty.

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.

Some of the images counted were not taken by the students enrolled in the class, and there was no way to distinguish these.

II. Course Summary and Action Plans Based on Assessment Results

1. 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 student needs to use their radiography skills acquired in their training in a new way - the field of forensics imaging. What surprised me was the observation that non-radiography students (students from the Anthropology curriculum) were also greatly interested in this learning.

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

This information will be shared with program faculty during regularly scheduled meetings, and with the Global Strategies Committee.

3. Intended Change(s)

Intended Change	Description of the change	Rationale	Implementation Date
No changes intended.			

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

Because this course runs concurrently and combined with the Anthropology class that goes with us, I am considering changing the course objective to focus more on students being able to identify forensically/archaeologically significant pathology in images.

III. Attached Files

[Course Assessment data](#)

[Radiograph Log Rubric](#)

Faculty/Preparer:	Jim Skufis	Date: 12/11/2014
Department Chair:	Connie Foster	Date: 12/16/2014
Dean:	Kristin Brandemuehl	Date: 12/17/2014
Assessment Committee Chair:	Michelle Garey	Date: 01/14/2015