Washtenaw Community College Comprehensive Report

RAD 217 Clinical Education
Effective Term: Fall 2025

Course Cover

College: Health Sciences
Division: Health Sciences
Department: Allied Health
Discipline: Radiography
Course Number: 217
Org Number: 15600
Full Course Title: Clinical Education
Transcript Title: Clinical Education
Is Consultation with other department(s) required: No
Publish in the Following: College Catalog , Time Schedule , Web Page
Reason for Submission: Three Year Review / Assessment Report
Change Information:
Course discipline code & number
Course description
Outcomes/Assessment
Objectives/Evaluation
Other:
Rationale: Master syllabus review based on assessment
Proposed Start Semester: Fall 2025
Course Description: In this course, students will be provided with a structured clinical experience in which they will apply knowledge and skill in positioning the skull and related anatomy. This course continues the discussion of professional behaviors and ethics, respect and empathy in handling patients from diverse backgrounds, radiation safety, and image critique and processing.

Course Credit Hours

Variable hours: No
Credits: 3
Lecture Hours: Instructor: 0 **Student:** 0
Lab: Instructor: 0 **Student:** 0
Clinical: Instructor: 336 **Student:** 336

Total Contact Hours: Instructor: 336 **Student:** 336
Repeatable for Credit: NO
Grading Methods: Letter Grades
Audit
Are lectures, labs, or clinicals offered as separate sections?: NO (same sections)

College-Level Reading and Writing

College-level Reading & Writing

College-Level Math

No Level Required

Requisites

Prerequisite

RAD 150 minimum grade "C-"

General Education

Request Course Transfer

Proposed For:

Student Learning Outcomes

1. Obtain diagnostic images of the skull and facial bones through proper use of radiographic equipment.
   Assessment 1
   Assessment Tool: Outcome-related simulation exams
   Assessment Date: Winter 2028
   Assessment Cycle: Every Three Years
   Course section(s)/other population: All sections
   Number students to be assessed: All students
   How the assessment will be scored: Departmentally-developed rubric
   Standard of success to be used for this assessment: 85% of students will score 90% or higher.
   Who will score and analyze the data: Departmental faculty

2. Demonstrate effective communication skills in the clinical setting.
   Assessment 1
   Assessment Tool: Outcome-related evaluation
   Assessment Date: Winter 2028
   Assessment Cycle: Every Three Years
   Course section(s)/other population: All sections
   Number students to be assessed: All students
   How the assessment will be scored: Student performance evaluation rubric
   Standard of success to be used for this assessment: 90% of the students will score 3 out of 5 or higher.
   Who will score and analyze the data: Clinical Instructors/preceptors will score the students and departmental faculty will analyze the data.

3. Calculate correct exposure factors for radiographs of the skull/facial bones.
   Assessment 1
   Assessment Tool: Outcome-related project
   Assessment Date: Winter 2028
   Assessment Cycle: Every Three Years
   Course section(s)/other population: All students
   Number students to be assessed: All students
   How the assessment will be scored: Departmentally-developed rubric
   Standard of success to be used for this assessment: 85% of the students will score 90% or higher.
   Who will score and analyze the data: Departmental faculty

4. Demonstrate a commitment to life-long learning by staying current with advances in diagnostic imaging.
   Assessment 1
   Assessment Tool: Continuing Education Modules provided by ASRT (American Society of Radiologic Technologists)
   Assessment Date: Winter 2028
   Assessment Cycle: Every Three Years

Course section(s)/other population: All sections
Number students to be assessed: All student
How the assessment will be scored: Complete/incomplete
Standard of success to be used for this assessment: 100% of students will complete the required modules.
Who will score and analyze the data: Departmental faculty

Course Objectives

1. Manipulate equipment with a level of proficiency, including operating the x-ray tube, all associated locks, and the image receptor or bucky tray as needed to acquire radiographs of the skull and facial bones.
2. Provide clear positioning instructions in a professional manner to obtain satisfactory images of the skull and facial bones.
3. Direct the central ray to the appropriate centering point for procedures related to the skull and facial bones.
4. Place x-ray tube at appropriate Source-to-Image Distance (SID) according to procedure.
5. Set correct tube angulation when required.
6. Collimate to anatomy.
7. Display radiographic markers within images but not obstructing pertinent anatomy.
8. Select appropriate Automatic Exposure Control (AEC) or manual technique setting for procedure.
9. Review images of the skull and facial bones to determine if they are acceptable, and if not explain how to improve it.
10. Identify and name anatomical structures which must be included in each projection.
11. Analyze images of the skull and facial bones to determine if the proper exposure factors were utilized.
12. Demonstrate competency in positioning of at least one skull or facial bone procedure on an actual patient.
13. Apply critical thinking skills to achieve images of the skull and facial bones in trauma situations.
14. Recognize the value of continuing education and the benefits that accompany membership in a professional organization (such as ASRT).

New Resources for Course

Course Textbooks/Resources

Textbooks
Manuals
Periodicals
Software

Equipment/Facilities

Off-Campus Sites

Reviewer	Action	Date
Faculty Preparer:		
Erin Hammond	*Faculty Preparer*	*Jan 28, 2025*
Department Chair/Area Director:		
Kristina Sprague	*Recommend Approval*	*Feb 07, 2025*
Dean:		
Shari Lambert	*Recommend Approval*	*Feb 18, 2025*
Curriculum Committee Chair:		
Randy Van Wagnen	*Recommend Approval*	*Apr 24, 2025*
Assessment Committee Chair:		
Jessica Hale	*Recommend Approval*	*Apr 26, 2025*

Vice President for Instruction:

Brandon Tucker *Approve* *Apr 28, 2025*

Course Discipline Code & No: RAD 217 **Title:** Clinical Education **Effective Term** Fall 2009

Division Code: HAT **Department Code:** RAD **Org #:** 15600

Don't publish: ☐ College Catalog ☐ Time Schedule ☐ Web Page

Reason for Submission. Check all that apply.

- ☐ New course approval
- ■ Three-year syllabus review/Assessment report
- ■ Course change
- ☐ Reactivation of inactive course
- ☐ Inactivation (Submit this page only.)

Change information: Note all changes that are being made. Form applies only to changes noted.

- ☐ Consultation with all departments affected by this course is required.
- ☐ Course discipline code & number (was ___________)*
  *Must submit inactivation form for previous course.
- ☐ Course title (was ___________________________)
- ■ Course description
- ■ Course objectives (minor changes)
- ☐ Credit hours (credits were: ___________________
- ☐ Total Contact Hours (total contact hours were: ___________)
- ☐ Distribution of contact hours (contact hours were: lecture: _______ lab _______ clinical ______ other ______)
- ■ Pre-requisite, co-requisite, or enrollment restrictions
- ☐ Change in Grading Method
- ☐ Outcomes/Assessment
- ☐ Objectives/Evaluation
- ☐ Other ___________________

Rationale for course or course change. Attach course assessment report for existing courses that are being changed.

Changes will reflect changes in other classes within the radiography program and changes in the field of radiography.

Approvals Department and divisional signatures indicate that all departments affected by the course have been consulted.

Department Review by Chairperson ☐ New resources needed ■ All relevant departments consulted

Print: James N Skufis Signature [signature] Date: 7/7/09
Faculty/Preparer

Print: Connie Foster Signature [signature] Date: 7/13/09
Department Chair

Division Review by Dean

☐ Request for conditional approval

Recommendation ☒ Yes ☐ No [signature] 7/13/09

Dean's/Administrator's Signature Date

Curriculum Committee Review

Recommendation

☐ Tabled ☒ Yes ☐ No [signature] 9/24/09

Curriculum Committee Chair's Signature Date

Vice President for Instruction Approval

[signature: Roger M. Palay] 9/29/09

Vice President's Signature Date

Approval ☒ Yes ☐ No ☐ Conditional

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Do not write in shaded area.
Log File 7/13/09 ☐ Ecopy ☐ Banner 10/8 C&A Database 10/8 C&A Log File 10/8/09 Basic skills ☐ Contact fee ☐ KC

Please return completed form to the Office of Curriculum & Assessment and email an electronic copy to sjohn@wccnet.edu for posting on the website.

***Complete ALL sections which apply to the course, even if changes are not being made.**

Course:	Course title:
RAD 217	Clinical Education

Credit hours: 3

If variable credit, give range:

_____ to _____ credits

Contact hours per semester:

	Student	Instructor
Lecture:		
Lab:		
Clinical:	336	
Practicum:		
Other:		
Totals:	336	

Are lectures, labs, or clinicals offered as separate sections?

☐ Yes - lectures, labs, or clinicals are offered in separate sections

■ No - lectures, labs, or clinicals are offered in the same section

Grading options:

☐ P/NP (limited to clinical & practica)

☐ S/U (for courses numbered below 100)

■ Letter grades

Prerequisites. Select one:

■ College-level Reading & Writing ☐ Reduced Reading/Writing Scores (Add information at Level I prerequisite) ☐ No Basic Skills Prerequisite (College-level Reading and Writing is not required.)

In addition to Basic Skills in Reading/Writing:

Level I (enforced in Banner)

	Course	Grade	Test	Min. Score	Concurrent Enrollment (Can be taken together)	Corequisites (Must be enrolled in this class also during the same semester)
	RAD 150	"C - "			☐	
■ and ☐ or					☐	
☐ and ☐ or					☐	
☐ and ☐ or					☐	

Level II (enforced by instructor on first day of class)

	Course	Grade	Test	Min. Score
☐ and ☐ or				
☐ and ☐ or				

Enrollment restrictions (In addition to prerequisites, if applicable.)

☐ and ☐ or Consent required ☐ and ☐ or Admission to program required ☐ and ☐ or Other (please specify):

Program: _____

Please send syllabus for transfer evaluation to:

Conditionally approved courses are not sent for evaluation.

Insert course number and title you wish the course to transfer as.

☐ E.M.U. as _____

☐ U of M as _____

☐ _____ as _____

☐ _____ as _____

☐ _____ as _____

☐ _____ as _____

Course	Course title
RAD 217	Clinical Education

Course description State the purpose and content of the course. Please limit to 500 characters.	This course provides structured clinical experience in the application of knowledge and skill in positioning the skull and related anatomy. This course continues the discussion of professional ethics, courtesy and empathy in handling patients, radiation safety, film processing/imaging plate (IP) handling and image archiving, and radiographic equipment.	
Course outcomes List skills and knowledge students will have after taking the course. **Assessment method** Indicate how student achievement in each outcome will be assessed to determine student achievement for purposes of course improvement.	**Outcomes** (applicable in all sections)	**Assessment** Methods for determining course effectiveness
	Properly use radiographic equipment to obtain diagnostic images of the skull and facial bones.	Simulation exams.
Course Objectives Indicate the objectives that support the course outcomes given above. **Course Evaluations** Indicate how instructors will determine the degree to which each objective is met for each student.	**Objectives** (applicable in all sections)	**Evaluation** Methods for determining level of student performance of objectives
	Manipulate the patient and/or body part into the correct position to obtain satisfactory images of the skull and facial bones.	Utilizing the equipment at the clinical site, students will manipulate the patient and equipment to produce diagnostic images of the skull and facial bones on simulated patients in the clinical setting.
	Direct the central ray to the appropriate centering point.	Utilizing the equipment at the clinical site, students will center the central ray correctly to produce diagnostic images of the skull and facial bones on simulated patients in the clinical setting.
	Maneuver tube into detent and other locking positions for taking images of the skull and facial bones.	Utilizing the equipment at the clinical site, students will put equipment into detent lock positions to produce diagnostic images of the skull and facial bones on simulated patients in the clinical setting.
	Place X-Ray tube at appropriate SID according to procedure.	Utilizing the equipment at the clinical site, students will put equipment at the correct SID to produce diagnostic images of the skull and facial bones on simulated patients in the clinical setting.

List all new resources needed for course, including library materials.

None

Student Materials:

List examples of types Texts Supplemental reading Supplies Uniforms Equipment Tools Software		Estimated costs
	The Pocket Rad Tech. Mary J. Hagler. W.B. Saunders Company, 1999.	$ 42.00
	Scrub Uniforms	31.00
	White Lab Coat	26.00
	WCC ID Badge and WCC Radiography Patch	12.00
		$111.00 total

Equipment/Facilities: Check all that apply. (All classrooms have overhead projectors and permanent screens.)

Check level only if the specified equipment is needed for all sections of a course.

☐ Level I classroom
Permanent screen & overhead projector

☐ Level II classroom
Level I equipment plus TV/VCR

☐ Level III classroom
Level II equipment plus data projector, computer, faculty workstation

■ Off-Campus Sites

☐ Testing Center

☐ Computer workstations/lab

☐ ITV

☐ TV/VCR

☐ Data projector/computer

☐ Other _____

Assessment plan:

Learning outcomes to be assessed (list from Page 3)	Assessment tool	When assessment will take place	Course section(s)/other population	Number students to be assessed
Properly use radiographic equipment to obtain diagnostic images of the skull and facial bones.	Simulation exams	Fall 2009 and every three years thereafter	Random selection from each section from past three years	Approximately 30

Scoring and analysis of assessment:

1. Indicate how the above assessment(s) will be scored and evaluated (e.g. departmentally developed rubric, external evaluation, other). Attach the rubric.

   Item analysis from the course simulations of the five primary views of the skull and facial bones—the PA Caldwell, Townes, Lateral, Waters, and SMV. Simulation and scoring rubric attached.

2. Indicate the standard of success to be used for this assessment.

   Eighty-five percent of students will score an average of 95% or better on rubric.

3. Indicate who will score and analyze the data.

   Radiography program faculty

4. Explain the process for using assessment data to improve the course.

   The results can be used in the program assessment report and will be reviewed by the department faculty in a departmental meeting.