

North Central State College
Radiological Sciences Assessment Plan

College Mission

"To provide quality, responsive, lifelong learning opportunities, including occupational, degree and other educational programs for individuals, business and industry, and the communities we serve."

College Vision

North Central State College, a model college of the 21st century, will promote a flexible and responsive, learner-centered environment that is committed to meeting community educational and training needs. By offering progressive educational programs, NC State will revitalize the learning process. We are committed to quality faculty and staff building bridges to local communities by actively contributing to the social, economic, educational, and cultural well-being of North Central Ohio.

Program Mission

The mission of the radiography program sponsored by North Central State College is to produce technically competent, entry-level radiographers. Our graduates will demonstrate compassion and empathy toward patients, possess critical thinking and problem-solving skill and demonstrate professionalism.

Program Assessment
Year ending 2016

Student Learning Outcome 1 (SLO 1). Students demonstrate clinical competency.

Outcome:	Measurement Tool	Benchmark	Results	Analysis	Action Plan
The student effectively manipulates radiographic equipment.	Maintenance Evaluation Rubric (Routine Shoulder Exam is used)	Each 1 st yr. student will earn: ≥ 3.0/5.0 Each 2 nd yr. student will earn: ≥ 4.0/5.0	6/9 Benchmark not met. 6/6 Benchmark met	Only 7/9 rubrics were submitted. The 2 not returned because students had not comped a shoulder, so could not perform a maintenance comp. The 1 student who did not meet the benchmark had difficulty manipulating the equipment for the axillary projection.	As discussed in the November 2016 Advisory meeting, remove this requirement for the 1 st year students.
The student accurately applies positioning skills.	Maintenance Evaluation Rubric	Each 1 st yr. student will earn: ≥ 3.0/5.0	3/7 rubrics submitted Benchmark not met.	Students had difficulty centering part over photocell; under-rotation for scapular Y proj.; had to be prompted to turn cassette transverse for AP proj.	See above

Program Assessment
Year ending 2016

Student Learning Outcome 1 (SLO 1). Students demonstrate clinical competency.

Outcome:	Measurement Tool	Benchmark	Results	Analysis	Action Plan
		Each 2 nd yr. student will earn: ≥ 4.0/5.0	5/6 Benchmark not met.	The student who did not meet benchmark had trouble with scapular Y proj.	
The student correctly utilizes radiation protection measures and principles.	Maintenance Evaluation Rubric	Each 1 st yr. student will earn: ≥ 3.0/5.0 Each 2 nd yr. student will earn: ≥ 4.0/5.0	7/7 rubrics submitted Benchmark not met. 6/6 Benchmark met.	Student performed 1 st proj. at 72"SID	

SLO 1. Students demonstrate clinical competency.

The student accurately selects appropriate technical factors.	Maintenance Evaluation Rubric	Each 1 st yr. student will earn: ≥ 3.0/5.0 Each 2 nd yr. student will earn: ≥ 4.0/5.0	7/7 rubrics submitted Benchmark met. 4/6 Benchmark not met.	2 students struggled to determine a manual technique.	
The student demonstrates appropriate patient care skills.	Maintenance Evaluation Rubric	Each 1 st yr. student will earn: ≥ 3.0/5.0 Each 2 nd yr. student will earn: ≥ 4.0/5.0	7/7 rubrics submitted Benchmark met. 6/6 Benchmark Met		

SLO 2. Students demonstrate critical thinking and problem-solving skills.					
Outcome:	Measurement Tool	Benchmark	Results	Analysis	Action Plan
The student performs a lab simulation using adaptive positioning.	Lab Simulation Grade Sheet	Each 2 nd yr. student will earn: $\geq 80\%$	Not completed	2 nd year students did not have this lab. They were on the 72 hours semester.	Dorie will develop tool to be used in the 16-17 academic year.
The student evaluates images for diagnostic quality.	CI evaluation, Section 5, A-C	Each 1 st yr. student will earn: $\geq 75\%$ average (9/12 pts)	8/9 Benchmark not met.	Student struggled to identify bone “parts” and some evaluation criteria.	
	CI evaluation, Section 5, A-C	Each 2 nd yr. student will earn: $\geq 80\%$ average (10/12 pts)	6/6 Benchmark met.		
The student performs an image evaluation.	Image Analysis Rubric (Adult spine exam with a repeat exposure)	Each 2 nd yr. student will earn: $\geq 90\%$ average	6/6 Benchmark met.		
The student demonstrates an organized process for completion of a multiple exam study.	Multiple Exam Study Assessment	Each 2 nd yr. student will earn: $\geq 90\%$ average	6/6 Benchmark met.		

SLO 3. Students demonstrate effective communication skills.					
Outcome:	Measurement Tool	Benchmark	Results	Analysis	Action Plan
The student demonstrates effective skills.	CI Evaluation, Section 7,A	Each 1 st yr. student will earn: ≥80% (4/5 pts)	9/9 Benchmark met.		
	CI Evaluation, Section 7, A	Each 2 nd yr. student will earn:100% (5/5 pts)	5/6 Benchmark not met.	One student partially explained exam procedures to patients – improvement needed	
	Oral Communication Value Rubric (RADS 2560)	Each 2 nd yr. student will earn: ≥70% (14/20 pts)	6/6 Benchmark met.	2 students 20/20 100% 1 student 19/20 96% 1 student 18/20 90% 1 student 16/20 84% 1 student 15/20 75%	
The student demonstrates effective written communication.	Written Communication Value Rubric (RADS 2440)	Each 2 nd yr. student will earn: ≥70% (14/20 pts)	6/6 Benchmark met.		

SLO 4. Students demonstrate professional attitudes, behaviors and ethics.					
Outcome:	Measurement Tool	Benchmark	Results	Analysis	Action Plan
The student demonstrates professional work ethics.	CI Evaluation, Section 1, A-E Section 2, A-C	Each 1 st yr. student will earn: ≥75% (24/32 pts)	9/9 Benchmark met.	Program faculty suggest raising benchmark to 90%.	
	CI Evaluation, Section 1, A-E Section 2, A-C	Each 2 nd yr. student will earn: ≥87% (28/32 pts)	6/6 Benchmark met.	Program faculty suggest raising benchmark to 94%.	
The graduate demonstrates professional and ethical standards.	Employer Survey	≥3.0 average score on the employer survey. (5 point scale)	0/0	No employer surveys were returned.	Program faculty will review the survey to ensure the information on it is necessary. Program faculty will discuss alternative methods to get the survey to employers.

Program Effectiveness Measures

Outcome:	Measurement Tool	Benchmark	Results	Analysis	Action Plan
The graduates pass the credentialing exam.	ARRT Examination Summary Report	85% of the graduates will pass the exam on the first attempt.	6/6 – 100% Benchmark Met		
Employer respondents indicate they would hire future graduates from the program.	Employer Survey	75% of the employers will respond “yes” to this question on the employer survey.	0/0	No employer surveys were returned.	Program faculty will review the survey to ensure the information on it is necessary. Program faculty will discuss alternative methods to get the survey to employers.
Graduates who seek employment in the radiology field are employed within 12 months of graduation.	Graduate survey or “word of mouth” or social media.	75% of the graduates will respond “yes” to this question on the graduate survey, or through social media or word-of-mouth.	6/6 – 100% Benchmark Met	3/6 – returned surveys 3/6 word of mouth or social media	
Students who begin the program successfully complete the program.	Program Completion Rate	60% of the students who begin the program will complete the program.	6/9 – 67% Benchmark Met	1 student was unsuccessful in the 1 st Fall semester in RADS 1150 and RADS 1130 1 student withdrew Fall semester, 2014 for personal reasons 1 student withdrew in Spring semester, 2015 for personal reasons	
Graduates indicate that they were adequately prepared as an entry-level radiographer.	Graduate Survey	≥75% of graduate respondents	3/3 returned surveys – 100% Benchmark Met	3/3 respondents indicated excellent preparation.	The students who completed surveys had positive comments about faculty and clinical instructors.

Program Effectiveness Measures					
Outcome:	Measurement Tool	Benchmark	Results	Analysis	Action Plan
Employer respondents indicate that graduates were adequately prepared as an entry-level radiographer.	Employer Survey	≥75% of employer respondents.	0/0		Program faculty will review the survey to ensure the information on it is necessary. Program faculty will discuss alternative methods to get the survey to employers.

Summary: Completed a revision of the Assessment Plan with respect to the tools and when the tools are used in the program.

Challenges:

- Program Retention – Increased the number of advisory meetings for pre- RAD students. During the meetings, introduced Brandon Stover, academic liaison for Health Sciences. Informed pre-RAD students that he is their contact person if there were any questions about the program and what is needed. If he couldn't not answer a question, he will contact program faculty.
- Require students who are academically struggling to meet with the RAD tutor.
- Completion and return of surveys – surveys were emailed to students and 3/6 (50%) returned them. Employer surveys were also emailed but we did not receive any back. Will continue to refine the survey. Will ask employers who are on the Advisory Committee the preferred way to get the survey to them at the Fall Advisory meeting.

Addendum: Discussed survey delivery and the most likely way employers would complete the survey and return it. Consensus was to send out the survey as a SurveyMonkey via email. This will be done late fall or early spring semester for feedback on the 2017 graduates.