Northwestern State University Student Learning Outcomes

College:Nursing and School of Allied HealthDegree Program:Master of Science in Radiologic SciencesAcademic Year:2016-2017

Northwestern State University Mission Statement: Northwestern State University is a responsive, student-oriented institution that is committed to the creation, dissemination, and acquisition of knowledge through teaching, research, and service. The University maintains as its highest priority excellence in teaching in graduate and undergraduate programs. Northwestern State University prepares its students to become productive members of society and promotes economic development and improvements in the quality of life of the citizens in its region.

College of Nursing and School of Allied Health Mission Statement: Northwestern State University College of Nursing and School of Allied Health serves the people of Louisiana and in so doing improves the health of its citizens while advancing the mission of Northwestern State University through excellence in accessible undergraduate, graduate, and continuing education programs that are designed to assist individuals in achieving their professional goals as responsible and contributing members of their profession and society.

School of Allied Health Mission Statement: The School of Allied Health at Northwestern State University of Louisiana is dedicated to providing high quality undergraduate and graduate programs that prepare individuals for a variety of professional healthcare roles and to be conscientious, contributing members of their profession and society.

MSRS Program Mission

To provide a learning environment for the development of knowledge, intellectual skills, and dispositions necessary for radiologic sciences professionals to function as leaders in the areas of administration and education and to furnish a foundation for doctoral study.

Student Learning Outcome	Tool	Benchmark			R	esults			Met/ Unmet	Analysis/Action
I. Utilize critical	A. Core	90% of		2017	2016	2015	2014	2013	Unmet	The comp exam was revised
thinking skills to	Section of	students will	Ν		8	6	4	9		to multiple choice with
resolve issues in	the	score an 80 or	Mean		82.5	87.8	86.2	80		justification questions for
radiologic or	Compre-	better on first	Range		72=9	84-91	80-90	5-98		2016.
healthcare related	hensive	attempt.			3					Test content is better
problems.	Exam.		%		63	100	100	77		emphasized in assignments.
			# not		3	0	0	2		Students are reminded of
			met							course objectives and advised to develop a
										portfolio to study for the comp exam.
				2017	2016	2015	2014	2013		This is a new tool that will
	B. Critical	100% of	Ν							be used in the 2017-2018
	Analysis	students will	Mean							academic year. This added
	Paper	achieve an	Range							tool will better measure the
	(RADS	average of	%							students' ability to critically
	5020)	85% or higher	# not		Tool	Tool	Tool	Tool		resolve issues that arise in
			met		not	not	not	not		the healthcare arena.
					used	used	used	used		

Student Learning Outcome	Tool	Benchmark				R	esults					Met/ Unme	Analysis/ Action
II. Apply research	A. Core &	90% of		2017	2016	201	15	20)14	20	13	t Unmet	Research
evidence and skills	Research	students will	N	2017	<u>2010</u> 8	6			9 14 4		9	Unnet	will now be
in the practice	Sections of	score an 80	IN		o R/C	R	C	R	+ C	R	C		considered
setting as an	the Compre-	or better on	Mean		82.5	к 87.8	87.	к 93.	86.2	к 83.8	80		core content
educator or	hensive	both	Mean		82.3	07.0	87. 8	93. 2	80.2	03.0	80		for 2017.
administrator in the	Exam.	sections for	Dongo		72-93	80-98	84-	2 90-	80-	58-98	5-98		The exam
radiologic sciences	Exum.	first	Range		12-95	00-90	84- 91	90- 100	80- 90	36-98	5-98		was revised
to improve		attempt.	%		62	100	100	100	100	77	77		to multiple
practice.		unompu	⁷⁰ # not		3	0	0	0	0	2	2		choice with
r			met		5	0	0	0	0	2	Δ.		justification
			met										questions for
													2016.
													Test content
													is better
													emphasized
	В.	100% of											in
	Practicum	students will											assignments.
	for	score an 80		2017	2016	2015	2014	201	3			Met	Students are
	education	or higher on	N	_01/	12	_010	_011		<u> </u>				reminded of
	and	practicum	Mean		93.1								course
	administr	portfolio	Range		80-								objectives
	ation		runge		100								and advised
	RADS		%		100								to develop a
	5510/		# not		0	Tool	Tool	Тос	21				portfolio to
	5520/		met		Ŭ	not	not	no					study for the
						used	used	use					comp exam.
	5530		<u>L</u>	1	<u> </u>				I				

Student Learning	Tool	Benchmark			Met/	Analysis/						
Outcome	A Deservel	1000/ - f		2015	20	1(20		2014	2012	Unmet	Action
III. Demonstrate	A. Research	100% of		2017		16		15	2014	2013	Unmet	Faculty will work
	paper and	students will	N			3		5	4	9		to impress upon
communication	presentation	achieve an			Pres	Paper	Pres	Paper	P&P	Pres		students the
skills in	(RADS	average of								only		importance of all
professional	5110).	85% or	Mean		93	85.3	97	78	91	91.5		assignments and
settings to maintain		higher on	Range		70-	69-96	90-	57-	91-93	80-		the need to
collegial and		the two			100		100	91		100		adequately
collaborative		assignments	%		89	75	100	67	100	89		prepare in order
relationships.		•	# not		1	2	0	2	0	1		to meet the
			met									objectives of each
								•				assignment.
												2015: Two
												students scored
												extremely low on
												research paper.
												Both students
												have written
												much better in the
												past. Their poor
												scores appear to
												be a reflection of
												a lack of time and
												attention to
												writing. All
												students will have
												the opportunity to
												improve their
												writing skills for
												their final paper.
												Faculty are
												inviting students

									to come to campus for writing sessions so faculty can encourage and help guide them during their writing.
B. Presentation (RADS 5030)	100% of students will achieve an average of 85% or higher	N Mean Range % # not met	2017	2016 9 98 94- 100 100 0	2015 6 98 95- 100 100 0	2014 4 98 96- 100 99 0	2013 9 99 96- 100 100 0	Met	This tool has been effective in measuring the students' ability to effectively communicate. We will continue to monitor the results.

Student Learning Outcome	Tool	Benchmark			Re	sults			Met/ Unmet	Analysis/ Action
IV. Conduct research studies to contribute to and improve the practice of the radiologic sciences.	earch studies to ntribute to and prove theresearch projectstudents will receive a score of 85%actice of the5910).or higher.	udents willN46ceive aMean9798ore of 85%Range89-93-						Met	2013, one student required more edits than others and submitted drafts late.2016, 4 students were assigned an IP and will be counted in 2017.	
	B. Survey development project (RADS 5123)	100% of students will receive a score of 85% or higher.	N Mean Range % # not met	2017	2016 9 92.4 76-98 89 1	2015 6 93.1 90-96 100	2014 4 93.2 91-94 100	2013 Tool not used	Unmet	One student did not meet for 2016. This student was having personal problems that may have affected her academically as other assignments were also low scores.

C. Research	100% of		2017	2016	2015	2014	2013	Unmet	While two students scored
Paper	students will	Ν		8	6				low on their papers, they were
(RADS	achieve an	Mean		85.3	78				given the opportunity to
5110)	average of	Range		69-96	57-91				rewrite their literature review
	80% or higher	%		75	67				in RADS 5910 while faculty
		# not		2	2	Tool	Tool		guided students to continue to
		met				not	not		edit their paper until it
						used	used		reached an acceptable quality.

Outcome	Tool	Benchmark					Res	ults					Met/ Unmet	Analysis/ Action
V. Evaluate	A. Core &	90% of		2017	20	16	20	15	20)14	20	13	Unmet	The exam
ethical	Concentration	students			Core	Conc	Core	Conc	Core	Conc	Core	Conc		was revised
standards in	Sections of the	will score	Ν		8	8	6	6	4	4	9	9		to multiple
practice as a	Comprehensive	80% or	Mean		82.5		87.8	62.8	86.2	87	80	76.2		choice with
radiologic	Exam.	better on	Range		72-		84-	61-	80-	84-	5-98	66-		justification
sciences		both	C		93		91	98	90	90		94		questions
educator or		sections for	%		62.5		100	67	100	100	77	89		for 2016.
administrator.		first	# not		3		0	2	0	0	2	1		Test content
		attempt.	met											is better
				1								ı		emphasized
														in
														assignments.
														Students are
														reminded of
														course
														objectives
														and advised
														to develop a
														portfolio to
														study for the
														comp exam.

B. Legal and	100% of		2017	2016	2015	2014	2013	Met	This is a
Ethical	students	Ν		9					new tool
presentation	will achieve	Mean		98					used in
(RADS 5030)	an average	Range		94-					2016. We
	of 85% or			100					will
	higher	%		100					continue to
		# not		0	Tool	Tool	Tool		monitor the
		met			not	not	not		data in
					used	used	used		2017.

Summary of Decisions

- I. Utilize critical thinking skills to resolve issues in radiologic or healthcare related problems. Measures for 2013 and 2016 were unmet. The comprehensive exam questions were revised from mostly essay to multiple choice questions with justification in support of the answer. This helps reduce subjective grading and keeps grades more consistent. Test content is better emphasized in assignments. Students are reminded of course objectives and advised to develop a portfolio to study for the comp exam. An additional measure was added for 2017.
- II. Apply research evidence and skills in the practice setting as an educator or administrator in the radiologic sciences to improve practice. Measures for 2013 and 2016 were unmet. Research will now be considered core content for 2017. The comprehensive exam questions were revised from mostly essay to multiple choice questions with justification in support of the answer. This helps reduce subjective grading and keeps grades more consistent. Test content is better emphasized in assignments. Students are reminded of course objectives and advised to develop a portfolio to study for the comp exam. An additional measure was added for 2016.
- III. Demonstrate effective communication skills in professional settings to maintain collegial and collaborative relationships. Measures for 2013, 2015, and 2016 were unmet. To better monitor measures for these benchmarks, the two assignments in RADS 5110 will be calculated separately to see which assignment the student is scoring low. So far, the research paper assignment is the benchmark unmet. Faculty are inviting local students to come to campus for writing sessions so faculty can encourage and help guide them during their writing. Faculty are offering phone and WebEx sessions to online students to help with writing. Faculty are allowing a rough draft to be submitted first. The faculty provides feedback and then the students work on improving their paper assignment.

- IV. Conduct research studies to contribute to and improve the practice of the radiologic sciences. In 2013, the measure was unmet for RADS 5910 due to one student required more edits than others and submitted drafts late. This student claimed that her low performance was due to her job demands. In 2016, the measure was unmet in RADS 5123 due to one student who was having personal problems that may have affected her grades, as other assignments were also low scores. Faculty will continue to monitor the measures. Another assignment in RADS 5110 was added as a measurement starting in 2015. This measure was unmet for both 2015 and 2016. While two students scored low on their papers, they were given the opportunity to rewrite their literature review in RADS 5910 as faculty guided students to continue to edit their paper until it reached an acceptable quality. Faulty are working to better advise students on developing their research papers. The format of assignment submissions and deadlines have been revised to help guide students at different stages in writing their papers. In addition, supplemental writing tools and tutorials are provided help guide students.
- V. Evaluate ethical standards in practice as a radiologic sciences educator or administrator. Measures for 2013, 2015, and 2016 were unmet. The comprehensive exam questions were revised from mostly essay to multiple choice questions with justification in support of the answer. This helps reduce subjective grading and keeps grades more consistent. Test content is better emphasized in assignments. Students are reminded of course objectives and advised to develop a portfolio to study for the comp exam. An additional measure was added for 2016.