



Goal #1: Students will demonstrate entry-level clinical competence in diagnostic imaging.

Student Learning Outcome	Data Tool/Mechanism	Benchmark	Frequency/Time Frame	Responsibility	Outcome Results
1.1 Students will demonstrate appropriate positioning skills.	1.1a Practicum Lab Evaluation, Section 3 "Position of Part"	Mean \geq 3.5 (5 point scale)	Annually (Semester I & II) Final practicum each semester	Course Instructor	2011 Sem I = 4.35 Sem II = 4.88 2010 Sem I = 4.61 Sem II = 4.45 2009 Sem I = 4.94 Sem II = 4.44 2008 Sem I = 4.12 Sem II = 3.95
	1.1b Qualifying Exam Section IB, Part H. "Correct Radiographic Positioning"	Mean \geq 1.5 (2 point scale)	Annually (Semester I & II) Minimum of 2 exams per student	Clinical Coordinator	2011 Sem I = 1.96 Sem II = 1.91 2010 Sem I = 1.96 Sem II = 1.91 2009 Sem I = 1.94 Sem II = 1.94 2008 Sem I = 1.89 Sem II = 1.86
1.2 Students will select and manipulate appropriate technical factors.	1.2a Exposure factor category 3a.&5b. Core Competency Exams.	Mean \geq 85% identified as "Yes"	Annually (Semester I & II) Minimum of 2 exams per student	Clinical Coordinator	2011 = 100% 2010 = 100% 2009 = 100% 2008 = 100%
	1.2b. Exposure Factor Calculation Review Exercise	Mean \geq 86% (B Letter Grade)	Annually	Course Instructor	2011 = 92% 2010 = 90.1% 2009 = 94% 2008 = 97%
1.3 The student will utilize appropriate radiation protection procedures	1.3a. OSL dosimeter report. Quarterly dose equivalent	All students will document an occupational dose equivalent exposure of <50 mRem /quarter	Quarterly	Clinical Coordinator	2011 = 100% Max = 28 mRem 2010 = 100% Max = 48mRem 2009 = 100% Max = 38 mRem 2008 = 100% Max = 29 mRem
	1.3b. Student Evaluation form, Section IC "Radiation Protection"	Mean Score/Section IC/ Semester => 7.0 (10 point scale)	Biannually, random sample, min. of 15 evals. /class/ semester	Clinical Coordinator	2011: Sem I= 8.06, Sem II=8.52, Sem III= 9.62, Sem IV=9.98 2010: Sem I= 8.06, Sem II=8.52, Sem III= 9.62, Sem IV 9.98 2009: Sem I= 8.06, Sem II=8.52, Sem III= 9.62, Sem IV 9.98 2008: Sem I= 8.06, Sem II=8.52, Sem III= 9.62, Sem IV 9.98

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Student Learning Objective 1.1

Data Tool 1.1a

Data Tool 1.1b

Student Learning Objective 1.2

Data Tool 1.2a

Data Tool 1.2b

Student Learning Objective 1.3

Data Tool 1.3a

Data Tool 1.3b



Goal #2 : Students will practice effective communications skills.

Student Learning Outcome	Data Tool/Mechanism	Benchmark	Frequency/Time Frame	Responsibility	Outcome Results
2.1 Students will demonstrate effective verbal communication skills.	2.1a. Comprehensive Exam, Section 1A, Part "D" score Pt. Care & Communication Skills	Mean / class / semester =>1.5 (2 point scale)	Annually Semester II & IV (Mid-term & Final)	Clinical Coordinator	2011 Sem II=2.0 Sem IV=2.0 2010 Sem II=2.0 Sem IV=2.0 2009 Sem II=2.0 Sem IV=2.0 2008 Sem II=1.93 Sem IV=2.0
	2.1b. RADT 117 Image Analysis Presentations, Presentation component, Section "J"	Mean Score Section "J" ≥ 4.0 (5 point scale)	Annually (Semester II)	Course Instructor	2011 = 4.23 2010= 4.41 2009= 4.07 2008= 4.29
	2.1c. Employer Survey, Communication Skills Section	Mean employer response => 3.5 (5 point scale)	Annually (July)	Clinical Coordinator	2011 = Data not yet available 2010= 5.0 2009= 4.25 2008= 4.3
2.2 Students will demonstrate appropriate written communication skills	2.2a RADT 128 - Professional Resume Assignment	Resume' Grading Rubric- Mean Score ≥ 43 points (out of possible 50)	Annually - March	Course Instructor	2011 = New data mechanism. Previous data not available.
	2.2b Under Development				

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Student Learning Objective 2.1

Data Tool 2.1a

Data Tool 2.1b

Data Tool 2.1c

Student Learning Objective 2.2

Data Tool 2.2a

Data Tool 2.2b



Goal #3 : Students will employ critical thinking / problem solving skills.

Student Learning Outcome	Data Tool/Mechanism	Benchmark	Frequency/Time Frame	Responsibility	Outcome Results
3.1 Students will assess patient needs and adapt clinical exams as required.	3.1a Comprehensive Exam, Section IA, Performance Evaluation	Mean score \geq 18% (out of a possible 20%)	Annually Semester II & IV (Mid term & Final)	Clinical Coordinator	2011 Sem II=20% Sem IV=20% 2010 Sem II=20% Sem IV=20% 2009 Sem II=19.46% Sem IV=20% 2008 Sem II=19.87% Sem IV=20%
	3.1b Employer Surveys, Analytical & Critical Thinking Skills section	Mean employer response \geq 3.5 (5 point scale)	Annually	Clinical	2011 = Data not yet available 2010= 5.0 2009= 4.25 2008= 4.3
	3.1c. Trama Qualifying Exam, Part II, Image Evaluation. (Demonstrates successful modification of exam parameters in a non-routine	Mean Score \geq 8.5 (10 point scale)	Annually (Semester IV)	Clinical Coordinator	2011 = 9.84 New data mechanism. Previous data not available.
3.2 -Students will describe modifications employed in compensating for exam variables.	Image Analysis Evaluation - Part "H" - Suboptimal Image Analysis	Mean Score \geq 4.0 (6 point total)	Biannually (Semester I & II) Final presentation each semester	Course Instructor	2011 Semester I = no data Semester II =5.94 New data mechanism. Previous data not available.
	RADT 115 - Radiographic Positioning & Procedures II, Spine Exam , Question 24 & 25	Mean Score \geq 2.5 (3 point total)	Annually (Semester II)		2011 Semester II = 2.82 New data mechanism. Previous data not available.

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Student Learning Objective 3.1

Data Tool 3.1a

Data Tool 3.1b

Data Tool 3.1c

Student Learning Objective 3.2

Data Tool 3.2a

Data Tool 3.2b



Goal #4 : Students will reflect professional behavior.

Student Learning Outcome	Data Tool /Mechanism	Benchmark	Frequency/Time Frame	Responsibility	Outcome Results
4.1 Students will demonstrate responsibility to the imaging profession	4.1a Attendance records, Average days absent / year	Mean Absences / Academic Year =< 6.0 days	Annually	Clinical Coordinator	2011 1st yr= 4.47 2nd yr = 6.14 2010: 1st yr = 4.76 2nd yr = 5.65 Prior data calculated by semester vs year
	4.1b Employer Surveys, Attendance and Punctuality section	Mean employer response => 3.5 (5 point scale)	Biannually	Clinical Coordinator	2011 = Data not yet available 2010= 4.6 2009= 5.0 2008= 4.3
4.2 Students will demonstrate positive attitudes.	4.2a Student Evaluation form, Section II-B (Attitude toward patients , staff, and profession)	Mean Score/Section IIB/ Semester => 7.0 (10 point scale)	Annually Semester I & III (Minimum of 2 evaluations per student)	Clinical Coordinator	2011 Sem I= 9.66 Sem III= 9.94 2010 Sem I= 9.27 Sem III= 9.46 2009 Sem I= 9.27 Sem III= 10.0 2008 Sem I= 8.43 Sem III= 10.0
	4.2b Clinical Coordinators Points Evaluation (Attitude / Professional criteria)	Mean points awarded /class/semester => 3.5 (5 points scale)	Annually (Sem II & IV)	Clinical Coordinator	2011 Sem II= 4.82 Sem IV= 5 New data mechanism. Previous data not available.
4.3 Students will identify with ethical behavior and judgement.	4.3a Medical Ethics Course, Final Exam, Situational essay	Grading Rubric- Mean Score ≥ 25 points (out of possible 30)	Annually (Semester IV)	Course Instructor	2011 = 27.94 2010= 28 2009= 28.7 2008= 27.5
	4.3b. RADT 131 "Intro to Rad Tech" Written summary identifying key points of the film "The Doctor"	Grading Rubric- Mean Score ≥ 25 points (out of possible 30)	Annually (Semester I)	Course Instructor	2011 = Not yet available New data mechanism. Previous data not available.

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Student Learning Objective 4.1

Data Tool 4.1a

Data Tool 4.1b

Student Learning Objective 4.2

Data Tool 4.2a

Data Tool 4.2b

Student Learning Objective 4.3

Data Tool 4.3a

Data Tool 4.3b



Goal #5: Students will integrate professional growth and development practices.

Student Learning Outcome	Data Tool/Mechanism	Benchmark	Frequency/Time Frame	Responsibility	Outcome Results
5.1 Students will identify with professional development activities.	5.1a. RADT 129 - Senior Research (projects or papers prepared for submission to State or National conference)	Mean Score \geq 90% (Grading Matrix)	Annually (Semester III)	Course Instructor	Class of 2011 = 95% Class of 2010= 95% Class of 2009 = 94%
	5.1b. State or National Conference participation (CE documentation)	All student conference attendees will document participation in \geq 4 CE credit activities.	Annually (Semester III)	Program Director	Fall 2010 WVSRT Conference= 100% of student attendees completed \geq 4 CE credits
5.2 Students will illustrate their professional responsibilities.	5.2a Ethics Exam #1 (Section III - Professional Development Questions 25 - 31)	Mean Score/Section III \geq 86%	Annually (May)	Course Instructor (Semester IV)	2011 = 96% New data mechanism. Previous data not available.
	5.2b Direct Reading Assignment, Question #4 (Scope of Practice / Appropriateness Criteria)	Short Answer Grading Rubric Mean Score \geq 4 points (5 point scale)	Annually	Course Instructor (Semester IV)	2011 = 4.41 New data mechanism. Previous data not available.
5.3 Students will reflect evidence of professional growth.	5.3a Student Evaluation form, Section I-D (Personal Performance) Sem. IV (Final Semester)	Mean Score/Section ID/ Semester \Rightarrow 9.0 (10 point scale) Validates progressive development in final clinical assignments	Annually	Clinical Coordinator	2011 = 10.0 New data mechanism. Previous data not available.
	5.3b Employer surveys, "Promotability Section"	Mean employer response \Rightarrow 3.5 (5 point scale) relative to the graduates potential for promotion	Annually	Clinical Coordinator	2011 = Data not yet available 2010= 4.0 2009= 3.5 2008= 3.5

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Student Learning Objective 5.1

Data Tool 5.1a

Data Tool 5.1b

Student Learning Objective 4.2

Data Tool 5.2a

Data Tool 5.2b

Student Learning Objective 4.3

Data Tool 5.3a

Data Tool 5.3b



Program Effectiveness Measures

Outcome	Data Tool/Mechanism	Benchmark	Frequency/Time Frame	Responsibility	Outcome Results
P.E. #1 - Students will complete the program.	Graduation data	Program completion rate \geq 80%	Annually	Program Director	2011 = 94% (17 of 18 completed the program in June 2011) 2010= 89% 2009= 88% 2008= 94%
P.E.# 2 - Graduates will pass the A.R.R.T. certification exam in Radiography.	A.R.R.T Exam Data	1st time ARRT exam pass rate \geq 85%	Annually	Program Director	2011 = 100% 2010= 100% 2009= 100% 2008= 100%
P.E. #3 - Graduates will pass the A.R.R.T. exam in Radiography with acceptable proficiency.	A.R.R.T Exam Data	ARRT Exam Mean Scaled Score / class \geq or no less than 0.5 of 1 Standard Deviation for US mean per exam year.	Annually	Program Director	2011: WVUH = 86.3 U.S.= Not yet available 0.5 of 1 SD = 2010: WVUH= 83.3 U.S.= 84.9 0.5 of 1 SD= 3.4 2009: WVUH= 83.5 U.S.= 84.8 0.5 of 1 SD =3.55 2008: WVUH= 88.8 U.S.= 84.6 0.5 of 1 SD = 3.6
P.E. #4 - Graduates will identify that they received a satisfactory education in Radiography.	Post-Exit Surveys	Mean Overall Score (Q1 - Q5, Program Assessment Section) \geq 4.0 (on a 5 point scale)	Annually	Program Director	2011 = 4.78 2010= 4.94 2009= 4.90 2008= 4.50
P.E. #5 - Graduates will obtain employment in diagnostic imaging within 6 months post- graduation	Post-Exit Surveys, E-mail responses, or Word of Mouth	Employment within 6 months of graduation \geq 75%	Annually	Program Director	2011 = 80% (as of 8/4/2011) 2010= 89% 2009= 82% 2008= 92%
P.E. #6 - Employers will identify graduates as satisfactory with respect to entry-level skills.	Employer Surveys	Question #3 \geq 4.0 (on a 5 point scale)	Annually	Clinical Coordinator	2011 = Data not yet available 2010 = 5.0 2009 = 4.25 2008 = 4.30 2007 = 4.9

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P.E. #1 **5 year Program Completion rate = 89.8%**

P.E. #2 **5 year ARRT Exam Pass rate = 97%**

P.E. #3

P.E. #4

P.E. #5 **5 year Employment Rate = 88.47%**

As of 8/4/2011, 8 of the 10 graduates seeking employment have found jobs. 7 graduates pursued advanced education.

P.E. #6