

**Somerset Community College Radiography
Outcomes Assessment
2017-2018**

Goal #1 The student will develop the clinical competence of an entry level radiographer.						
OUTCOMES EXPECTED	MEASUREMENT TOOLS	BENCHMARK	TIME FRAME	RESPONSIBLE PARTY	ACTUAL OUTCOME	ACTION PLAN
Students will apply radiation protection principles	Procedures I practical exams (questioning patient regarding pregnancy, proper collimation & shielding); IMG 108 Radiographic Procedure I	90% of students will apply all thee radiation practices on all Procedures I practical exams	Annually; fall semester	Didactic Instructor	12 students in cohort; 4 practical exam with 2 procedures per exam 252/264 = 95.5%	Benchmark met.
	Procedures II practical exams (questioning patient regarding pregnancy, proper collimation & shielding); IMG 118 Radiographic Procedure II	90% of students will apply all thee radiation practices on all Procedures II practical exams	Annually; spring semester	Didactic Instructor	12 students in cohort; 4 exams; 255 yes out of 264 possible = 96.5%	Benchmark met.
	Clinical Competency Form; (items 16 proper collimation, 31 rule out pregnancy & 32 appropriate shielding) during IMG 229 Clinical Practice V	95% of students will receive a “Yes” response on all three items (Yes/No scale)	Annually; spring semester	Clinical Coordinator	12 students in cohort; 10 competencies per student 120/120 = 100%	Benchmark met.
Students will be able to competently perform routine radiographic procedures	Procedures I portfolio (chest, bony thorax, abdomen, upper & lower extremities, shoulder and pelvic girdle exams); IMG 108 Radiographic Procedures I	Students will receive a grade of $\geq 85\%$ on Procedures I portfolio	Annually; fall semester	Didactic Instructor	Delayed to spring semester due to automatic film processing issues, also by doing the portfolio digital saves money on expendable items such as film and chemistry.	Benchmark met.
	Procedures II portfolio (spine, skull/facial, abdominal contrast exam positions); IMG 118 Radiographic Procedures II	Students will receive a grade of $\geq 95\%$ on Procedures II portfolio	Annually; spring semester	Didactic Instructor	11/11 100% Range 96 – 100% Average 97.1%	Benchmark met.

	Terminal Competency Practical Exam; IMG 229 Clinical Practice V	Students will receive a grade of $\geq 90\%$ on Terminal Comp Exam	Annually; spring semester	Program or Clinical Coordinator	8/12 = 67% Range 81.5–96.4 Average 91.3%	Benchmark not met. The overall issue appears to be a lack of understanding of AEC and its proper use to affect indicator number, and when manual techniques should be used. With the new curriculum increase both the image production and equipment courses from 2 to 4 credit hours, there should now be sufficient time to ensure 100% understanding of AEC and its effects on indicator numbers.
	Students will complete all 37 mandatory and 15 elective clinical competencies as required by the ARRT; without simulation.	Students will complete all 52 competencies required passing grade of $\geq 78\%$	Annually; spring semester	Clinical Coordinator	Entire cohort completed the all 52 of the required competencies. 12/12 = 100%	Benchmark met.
Students will be able to select appropriate technical factors	Lab Practical Exam (selection of technical factor and manipulation of technical factors according to resulting indices); IMG 114 Image Production & Acquisition	Students will receive a passing grade of $\geq 78\%$	Annually; fall semester	Didactic Instructor	9/11 = 82% Score Range 64% – 97% Average 82.9%	Benchmark not met; class average was 82.9% with two falling below the passing score of 78%. Calculation of corrective action for digital indices was added to procedures portfolio assignment during the spring 2018 semester. The topic was also covered again in IMG 214 Radiographic Equipment during the spring 2018 semester.
	Image Production Portfolio; IMG 114 Image Production & Acquisition	Students will receive a grade of $\geq 90\%$	Annually; fall semester	Didactic Instructor	11/11 = 100% Range 90 – 98 Average 94.1	Benchmark met.
	Items 7- 10 (technical factors) of the Clinical Competency Form; Clinical Practice 1-V	95% of students will receive a “Yes” response on all five items (Yes/No scale)	Annually; spring semester	Clinical Coordinator	11/11 100% 100% “Yes” on all competency forms	Benchmark met.

Goal #2 The student will exhibit critical thinking and problem solving skills.

OUTCOMES EXPECTED	MEASUREMENT TOOLS	BENCHMARK	TIME FRAME	RESPONSIBLE PARTY	ACTUAL OUTCOME	ACTION PLAN
Students will modify patient positioning and procedures for the non-routine patient	Trauma/Surgery/C-arm Practical Exam; IMG 119 Clinical Practice II	Students will receive a grade of $\geq 80\%$	Annually; Summer 1 st Bi-term	Faculty	Pending Summer 2018	The current freshmen class will be the first cohort evaluated; during the summer 2018.
	Trauma/Surgery/C-arm Practical Exam; IMG 219 Clinical Practice IV	Students will receive a grade of $\geq 90\%$	Annually; fall semester	Faculty	Pending Fall 2018	The current freshmen class will be the first cohort evaluated; beginning fall 2018.
Students will modify radiographic exposures for the non-routine circumstances	Trauma/Surgery/C-arm Practical Exam; IMG 119 Clinical Practice II	Students will receive a grade of $\geq 80\%$	Annually; Summer 1 st Bi-term	Faculty	Pending Summer 2018	The current freshmen class will be the first cohort evaluated; during the summer 2018.
	Trauma/Surgery/C-arm Practical Exam; IMG 219 Clinical Practice IV	Students will receive a grade of $\geq 90\%$	Annually; fall semester	Faculty	Pending Fall 2018	The current freshmen class will be the first cohort evaluated; beginning fall 2018.
Students will demonstrate improvement in problem-solving skill over the duration of the program	California Critical Thinking Disposition Inventory (CCTDI) standardized examination. Health Sciences Reasoning Test-Associate Degree (HSRT-AD) standardized examination.	To be determined after consulting Insight Assessment (vendor).	Annually (1 st semester & 5 th semester)	Program Coordinator	Pending Spring 2019	This measurement tool was implemented in the Fall of 2017; pre-testing. The first post-testing will not occur until Spring of 2019.

Goal #3 Students will communicate effectively.

OUTCOMES EXPECTED	MEASUREMENT TOOLS	BENCHMARK	TIME FRAME	RESPONSIBLE PARTY	ACTUAL OUTCOME	ACTION PLAN
Students will demonstrate effective written communication skills	History Writing Exam; IMG 106 Patient Care	Students will receive a passing grade of $\geq 78\%$	Annually; Fall Semester	Didactic Instructor	11/11 100% Score range: 81% to 96% Average 90.1%	Benchmark met.
	Patient Charting assignment; IMG 116 Advanced Patient Care	Students will receive a passing grade of $\geq 78\%$	Annually; Spring Semester	Didactic Instructor	8/11 scored ≥ 78 , 73%; Score range: 0-100% Average 78.1%	Benchmark not met. Assignment was given near the end of the semester; some students were "overwhelmed" and did not put forth any effort into the assignment. Assignment will be given next in the Spring of 2019 in DMI 222 Pharmacology, its own 2 credit hour class, instead of being embedded into the current advanced patient care (special procedures & pharmacology), a 2 credit hour course. More time will be available to this topic in the future.
	Patient Incident Report Writing Exam; IMG 116 Advanced Patient Care	Students will receive a passing grade of $\geq 78\%$	Annually; Spring Semester	Didactic Instructor	9/11 scored ≥ 78 , 82%; Score range: 0-100% Average 72.7%	Benchmark not met. Assignment was given near the end of the semester; some students were "overwhelmed" and did not put forth any effort into the assignment. Assignment will be given next in the Fall of 2018 in DMI 106 Patient Care & Ethic, a 3 credit hour class, instead of being embedded into the current advanced patient care (special procedures & pharmacology), a 2 credit hour course. More time will be available to this topic in the future.

	Research Paper Rad Bio Topic; IMG 224 Rad Bio & Protection	Students will receive a passing grade of $\geq 78\%$	Annually; Fall Semester	Didactic Instructor	12/12 100% Range: 79 – 96% Average: 88.75%	Benchmark met; most issues were with word processing—not writing skills per se. Consider doing a workshop on using “Word Documents.”
	Justification (e.g., new equipment) Report Writing Assignment; IMG 228 Seminars	Students will receive a passing grade of $\geq 78\%$	Annually; Spring Semester	Didactic Instructor	12/12 100% Range 80 -100% Average 91.5%	Benchmark met.
	Resume Writing assignment; IMG 228 Seminars	Students will receive a passing grade of $\geq 78\%$	Annually; Spring Semester	Didactic Instructor	12/12 100% Range 100 – 100% Average 100%	Benchmark met.
Students will demonstrate effective oral communication skills	Lead Ethic Topic Discussion; IMG 104 Intro to Radiography	Students will receive a passing grade of $\geq 78\%$	Annually; Fall Semester	Didactic Instructor	Assignment was not given.	Assignment not given; simply ran out of time by the end of the semester.
	Oral Presentation, Pathology Case Study; IMG 226 Rad Pathology	Students will receive a passing grade of $\geq 78\%$	Annually; Fall Semester	Didactic Instructor	Assignment was not given.	Assignment not given; did not notice it was not on the syllabus until the semester was underway.
	Oral Presentation, CT case study IMG 216 Basic CT	Students will receive a passing grade of $\geq 78\%$	Annually; Spring Semester	Didactic Instructor	12/12 100% Range 90 – 100% Average 98%	Benchmark met.
Students will demonstrate effective interpersonal skills	Patient Care Communications Practical; IMG 106 Patient Care	Students will receive a passing grade of $\geq 78\%$	Annually; Fall Semester	Didactic Instructor	11/11 100% Range 89 – 100% Average 95.3%	Benchmark met.
	Student Performance Evaluation (SPE) Form; item # 4, 9, 14 & 15 from IMG 119 Clinical Practice II	85% will receive ≥ 3 on all four items.	Annually; summer Semester	Program or Clinical Coordinator	Pending Summer 2018	The current freshmen class will be the first cohort evaluated; beginning summer 2018.
	Student Performance Evaluation (SPE) Form; item # 4, 9, 14 & 15 from IMG 229 Clinical Practice V	95% will receive ≥ 3 on all four items.	Annually; Spring Semester	Clinical Coordinator	116 total items; 94 = 4 & 22 = 3. 116/116 = 100%	Benchmark met.

Goal #4 The student will demonstrate professional growth and development.

OUTCOMES EXPECTED	MEASUREMENT TOOLS	BENCHMARK	TIME FRAME	RESPONSIBLE PARTY	ACTUAL OUTCOME	ACTION PLAN
Students will be able to explain the continuing education requirement for ARRT registration renewal and Kentucky Board of Medical Imaging & Radiation Therapy (KBMIRT) continued licensure	Continuing Education Requirement & Continued ARRT Registration Exam; IMG 228 Seminars	Students will receive a passing grade of $\geq 95\%$ after two attempts	Annually; Spring Semester	Didactic Instructor	1 st Attempt 1/12 = 8% Range 56 – 97% (105 points possible) Average 77.7%	Benchmark met.
	Continuing Education Requirement & Continued KBMIRT Continued Licensure Exam; IMG 228 Seminars	Students will receive a passing grade of $\geq 95\%$ after two attempts	Annually; Spring Semester	Didactic Instructor	2 nd Attempt 11/11 = 100% Range 101 – 105% Average 102.4%	
Students will a professional development plan	Completion of a Clinical Experience Portfolio-Clinical Practice I-V	Students will receive a grade of $\geq 90\%$	Annually; Spring Semester	Didactic Instructor	12/12 100% Range 100 – 100% Average 100%	Benchmark met.
	Five-year Profession Plan writing assignment describing career goals. importance of continuing education, professional growth, & benefits of involvement in professional societies	Students will receive a grade of $\geq 90\%$	Annually; Spring Semester	Didactic Instructor	12/12 100% Range 93 – 100% Average 96.75%	Benchmark met.