



Blackhawk Technical College
Associate Degree Radiography Program

Outcomes and Assessment
for the Class of 2024

Cohort Group

2022-2024

Blackhawk Technical College Associate Degree Radiography Program Mission and Goals

PROGRAM MISSION:

The Mission of the Blackhawk Technical College Associate Degree Radiography Program is to prepare the Student to Practice Entry-Level Diagnostic Medical Radiography.

PROGRAM GOALS/BTC CORE ABILITIES:

- GOAL 1: DEMONSTRATE CRITICAL THINKING
- GOAL 2: DEMONSTRATE EFFECTIVE COMMUNICATION
- GOAL 3: DEMONSTRATE PROFESSIONAL WORK BEHAVIORS
- GOAL 4: DEMONSTRATE DIVERSE AND INCLUSIVE PRACTICES
- GOAL 5: DEMONSTRATE PROFESSIONAL USE OF RELEVANT TECHNOLOGY

PROGRAM OUTCOMES

- OUTCOME 1: CARRYOUT THE PRODUCTION AND EVALUATION OF RADIOGRAPHIC IMAGES
- OUTCOME 2: PRACTICE RADIATION SAFETY PRINCIPLES
- OUTCOME 3: PROVIDE QUALITY PATIENT CARE
- OUTCOME 4: MODEL PROFESSIONAL AND ETHICAL BEHAVIOR CONSISTENT WITH THE A.R.R.T. CODE OF ETHICS
- OUTCOME 5: APPLY CRITICAL THINKING AND PROBLEM SOLVING SKILLS IN THE PRACTICE OF DIAGNOSTIC RADIOGRAPHY

GOAL 1: DEMONSTRATE CRITICAL THINKING					
Outcomes	Measurement Tool	Benchmark	Timeframe	Responsible Party	Results
OUTCOME 5: APPLY CRITICAL THINKING AND PROBLEM SOLVING SKILLS IN THE PRACTICE OF DIAGNOSTIC RADIOGRAPHY	1. Trajecsys End of Semester Eval: Assesses situations and adapts to patient's ability, employs non-routine procedures and techniques appropriately, uses equipment and positioning devices appropriately	1. Average score of 3 on 1-5 scale for Clinical 2 & 3; Average score of 4 on 1-5 scale for Clinical 6	1. Clinical 2, 3 & 6 End of Semester	1. All radiography faculty	<ul style="list-style-type: none"> Clinical 2: 3.3 Clinical 3: 3.8 Clinical 6: 4.7
	2. Clinical Competency Form/Unsuccessful Competency Form	2. Less than 10% of unsuccessful competency attempts due to critical thinking/problem solving issues for all of students	2. Clinical 2 & 3 End of Semester	2. All radiography faculty	<ul style="list-style-type: none"> Clinical 2: 32% (15 of 45) Clinical 3: 25% (4 of 16)
	3. Repeat Log	3. Less than 10% of repeats due to critical thinking/problem solving for all of students	3. Clinical 6 End of Semester	3. Clinical radiography faculty	<ul style="list-style-type: none"> Clinical 6: 100% (13 of 13)
OUTCOME 1: CARRYOUT THE PRODUCTION AND EVALUATION OF RADIOGRAPHIC IMAGES	1. End of Semester Image Evaluation Tests	1. All students pass image evaluation examinations: $\geq 80\%$	1. End of Semester Fall & Spring Y1	1. Course Instructor	<ul style="list-style-type: none"> Fall: 72% (13 of 18) Spring: 72% (11 of 15)
	2. Repeat Log	2. 100% of students will identify a reason for every exam that a repeat projection was necessary	2. Clinical 4 and 6	2. Clinical Radiography faculty	<ul style="list-style-type: none"> Clinical 4: 100% (13 of 13) Clinical 6: 100% (13 of 13)

GOAL 2: DEMONSTRATE EFFECTIVE COMMUNICATION					
Outcomes	Measurement Tool	Benchmark	Timeframe	Responsible Party	Results
OUTCOME 3: PROVIDE QUALITY PATIENT CARE	1. Trajecsys: Acts as agent through observation and communication, concise in manner and instructions, uses appropriate medical terminology, Communicates appropriate information	1. Average score of 3 or better: 1-5 scale	1.Clinical 2, 3, & 6 End of Semester	• All radiography faculty	<ul style="list-style-type: none"> • Clinical 2: 3.7 • Clinical 3: 4.3 • Clinical 6: 4.7
	2.Clinical Competency Form/Unsuccessful Competency Form	2.Less than 10% of unsuccessful competency attempts identified in Patient Preparation and History category for 100% of students	1. Clinical 2 &3 End of Semester	• All radiography faculty	<ul style="list-style-type: none"> • Clinical 2: 0% (0 of 47) • Clinical 3: 0% (0 of 16)
	3.Repeat Log	3. Less than 10% of repeats due to ineffective communication 100% of students	3. Clinical 6	All radiography faculty	<ul style="list-style-type: none"> • Clinical 6: 1.2% (3 of 244)
	4. A.Communication Lab Procedures 1 intoxicated patient : Communicates in a concise manner to teams while comforting patient and educates them of exam that is being performed. B.Communication Lab Procedures 2 hearing impaired patient:	4.A. All students will receive an average score of 75% or higher by completing at 6 of the 7 categories of how to communicate with a difficult patient 4.B. All students will receive a score of 75% or higher by completing at least 6 of the 8 categories of how to better communicate with hearing impaired patient.	4A. Rad Procedures 1: A Intoxicated Patient 4B. Rad Procedures 1: B Hearing impaired patient	<ul style="list-style-type: none"> • All radiography faculty All radiography faculty 	<ul style="list-style-type: none"> • Procedures 1: 70% (12 of 17) • Procedures 1: 24% (4 of 17)
OUTCOME 4: MODEL PROFESSIONAL AND ETHICAL BEHAVIOR CONSISTENT WITH THE A.R.R.T. CODE OF ETHICS	1. Trajecsys: Demonstrates professional work behavior, responds to patient's needs, continually strives to improve knowledge by participating in educational activities, shares knowledge, accepts constructive criticism and investigates new and all aspects of professional practice	1. Average score of 4 or better: 1-5 scale	2. Clinical 2, 3, & 6 End of Semester	• All radiography faculty	<ul style="list-style-type: none"> • Clinical 2: 3.8 • Clinical 3: 4.4 • Clinical 5: 4.6
	2. All students who have a radiation safety infraction will self-report by the end of the day the event occurred.	2. 100% of students will self-report	1.Entirety of the program	• All radiography faculty	1 of 3

GOAL 3: DEMONSTRATE PROFESSIONAL WORK BEHAVIORS					
Outcomes	Measurement Tool	Benchmark	Timeframe	Responsible Party	Results
OUTCOME 1: CARRYOUT THE PRODUCTION AND EVALUATION OF RADIOGRAPHIC IMAGES	1. A. Clinical Competency Form/Unsuccessful Competency Form B. Repeat Log/Reflection	1. A. All students successfully complete 80% in clinical 2 and 85% in clinical 3 competency attempts on first attempt. B. All students will be able to determine why they failed attempt and identify how to make needed corrections.	1. Clinical 2, 3 & 6 End of Semester	1. All radiography faculty	<ul style="list-style-type: none"> • Semester 2: 78% (169 of 216) • Semester 3: 97% (446 of 462) • Semester 6: 100% (214 of 214)
	2. Lab Rubric	2. All students successfully complete 80% of laboratory competency attempts on first attempt	2. End of Semester Fall Y1 & Spring Y1	2. Course instructors	<ul style="list-style-type: none"> • Fall Y1: 87.2% (157 of 180) • Spring Y1: 96% (86 of 90)
	3. Policy Infractions Data Sheet	3. 100% of students placed on probation for issues of professionalism complete all terms as identified in the plan for success or guidelines set at meeting between student and program director	3. All semesters that students are on probation	3. All radiography faculty	<ul style="list-style-type: none"> • Fall Y1: 100% (3 of 3) • Spring Y1: 100% (1 of 1) • Summer Y2: 0% (0 of 1) • Fall Y2:- Student on Probation dropped program • Spring Y2: No students from cohort of 22-24 on probation
OUTCOME 2: PRACTICE RADIATION SAFETY PRINCIPLES	1. Clinical Competency Form/Unsuccessful Competency Form	1. Less than 10% of unsuccessful competency attempts due to rad. safety issues for 100% of students.	1. Clinical 2 & 3 End of Semester	1. All radiography faculty	<ul style="list-style-type: none"> • Clin 2: 8% (4 of 47) • Clin 3: 18% (3 of 16)
	2. Repeat log	2. Less than 10% of repeated radiographs due to rad. Safety issues for 100% of students	2. Clinical 6 End of semester	2. All radiography faculty	<ul style="list-style-type: none"> • Clin 6: 10.6% (26 of 244)
	3. Clinical radiation safety policy infractions	3. 10% or less students incurring clinical <i>above minor</i> infractions for radiation safety issues.	3. Clinical 2, 4 & 6 End of Semester	3. All radiography faculty	<ul style="list-style-type: none"> • Clin 2: 11% (2 of 18) • Clin 4: 7% (1 of 14) • Clin 6: 0% (0 of 13)

GOAL 4: DEMONSTRATE DIVERSE AND INCLUSIVE PRACTICES					
Outcomes	Measurement Tool	Benchmark	Timeframe	Responsible Party	Results
OUTCOME 3: PROVIDE QUALITY PATIENT CARE	1. Trajecsys evaluation: Diverse and Inclusive Practices category: Clinical 5 <i>Delivers patient care and services unrestricted by concerns of personal attributes, or the nature of the disease or illness, without discrimination on the basis of race, color, creed, religion, national origin, sex, marital status, disability, sexual orientation, gender identity, veteran status, age, or any other legally protected basis.</i>	1. Average score of 3 on 1-5 scale for clinical 2 & 3, average score of 4 on 1-5 scale clinical 6	1. End of Semester	1. Faculty assigned to specific clinical course	<ul style="list-style-type: none"> Clinical 2: 4.5 average Clinical 3: 4.5 average Clinical 5: 4.9 average
	2. All students will attend a workshop given by Health Divisions/Public Safety on De-Escalation	2. All students will attend the workshop.	2. Fall Y1 and Y2 during Rad Tech Week/Breakfast	2. All BTC Radiography Staff	<ul style="list-style-type: none"> 100% (14 of 14)
OUTCOME 4: MODEL PROFESSIONAL AND ETHICAL BEHAVIOR CONSISTENT WITH THE A.R.R.T. CODE OF ETHICS	1. Ted Talk	1. All student will write a positive reflection after watching ted talk by Jamie Oliver, support and define Autonomy in Healthcare	1. Pathology	1. Course Instructor	<ul style="list-style-type: none"> Pathology 100% (13 of 13)
	2. Medical Imaging Club participation	100% membership and participation in all required club activities.	All semesters enrolled in the program	Club advisor and Medical Imaging Club President (student)	<ul style="list-style-type: none"> Clinical 5: 100% (13 of 13) Clinical 6: 100% (13 of 13)

GOAL 5: DEMONSTRATE PROFESSIONAL USE OF RELEVANT TECHNOLOGY

Outcomes	Measurement Tool	Benchmark	Timeframe	Responsible Party	Results
OUTCOME 1: CARRYOUT THE PRODUCTION AND EVALUATION OF RADIOGRAPHIC IMAGES	1. Clinical Competency Form/Unsuccessful Competency Form 2. Repeat log- Reflection	1. Less than 10% of unsuccessful competency attempts related to Preparation for Examination/Proper Equipment use	1. Clinical 2, 3, & 6	1. All Radiography Faculty	<ul style="list-style-type: none"> • Clinical 2: 0% (0 of 47) • Clinical 3: 0% (0 of 16) • Clinical 6: N/A
	3. Radiographic Equipment Competency Form	2. 100% of students will successfully complete Radiographic Equipment Competency	2. Clinical 1, 2, & 5	2. Course Instructor	<ul style="list-style-type: none"> • Clinical 1: 100% (18 of 18) • Clinical 2: 100% (18 of 18) • Clinical 5: 100% (13 of 13)
OUTCOME 2: PRACTICE RADIATION SAFETY PRINCIPLES	1. Zoom Video: Patient History Taking	1. All students will successfully pass history taking assignment ensuring patient and radiation safety	1. Rad Procedures 1 & 2	1. Course Instructor	<ul style="list-style-type: none"> • Procedures 1: 100% (18 of 18) • Procedures 2: 100% (18 of 18)
	2. Lab Rubric:	2. Of the failed labs 0 of them will be due to equipment mistakes.	2. Rad Procedures 1 & 2	2. Course Instructor	<ul style="list-style-type: none"> • Procedures 1: 23% (5 of 22) • Procedures 2: 17% (1 of 6)

Blackhawk Technical College Associate Degree Radiography Program Graduate Completion Worksheet Class of 2024						
Name	Complete Program 2 Y.	Passed ARRT 1 st Attempt	Passed ARRT Subsequent	Placed in Field Within 1 Year	Placed in Field Subsequent	Not Actively Seeking Employment
1.	X	X				
2.						
3.						
4.	X	X			X	
5.	X	X			X	
6.	X	X			X	
7.						
8.	X	X			X	
9.	X	X				X
10.	X	X			X	
11.	X	X			X	
12.						
13.	X		X		X	
14.	X	X			X	
15.						
16.	X	X			X	
17.	X	X			X	
18.	X	X			X	
Summary: Class of 2024		Summary: BTC Total & 5 Year Averages				
Program Completion: 100% (13 of 13)* ARRT Pass Rate 1 st Attempt: 92% (12 of 13) ARRT Pass Rate Subsequent: 100% (13 of 13) Placed in Field 1 Year Following Graduation: 100% (13 of 13)		Program Completion 5 Year Average: 90% 69 of 77 ARRT 1 st Attempt 5 year Average: 94% 61 of 65 ARRT Pass Rate Subsequent 5 year Average: 97% 63 of 65 Placed in Field 1 Year Following Graduation 5 Year Average: 100% 62 of 62				
Notes * No attrition for academic reasons Consistent with JRCERT Policy, the BTC Radiography Program Considers a Graduate "Not Actively Seeking Employment" if: <ul style="list-style-type: none"> • Fails to communicate with program officials regarding employment status after multiple attempts, • Is unwilling to seek employment that requires relocation, • Is unwilling to accept employment due to salary or hours, • Is on active military duty, and/or • Is continuing education. 						