Wharton County Junior College

SCANS Matrix

Program: Radiologic Technology
CIP: 51.0911

LIST ALL COURSES REQUIRED AND IDENTIFIED COMPETENCIES

Competencies								Course Number	Course Title
1	2	3	4	5	6	7	8		
X	X		X					RADR 1409	Intro to Radiology and Patient Care
X				X			X	RADR 1411	Basic Radiographic Procedures
X				X				BIOL 2401	Human Anatomy & Physiology I
X				X			X	RADR 2401	Intermediate Radiographic Procedures
X		X					X	RADR 1313	Principles of Radiographic Imaging I
X		X	X	X	X	X	X	RADR 1166	Practicum I
X		X	X	X	X	X	X	RADR 1267	Practicum III
X				X				BIOL 2402	Human Anatomy & Physiology I
X		X		X				MATH 1314	College Algebra
X		X					X	RADR 2205	Principles of Radiographic Imaging II
X		X	X	X	X	X	X	RADR 1266	Practicum II
X		X		X			X	RADR 2309	Radiographic Imaging Equipment
X	X		X					RADR 2117	Radiographic Pathology
X							X	RADR 2331	Advanced Radiographic Procedures
X		X	X	X	X	X	X	RADR 2266	Practicum IV
X			X					ENGL 1301	Composition I
X	X			X				PSYC 2301	General Psychology
X							X	RADR 2333	Advanced Medical Imaging
X		X		X				RADR2313	Radiation Biology and Protection
X		X	X	X	X	X	X	RADR 2267	Practicum VI
X									Language, Philosophy, & Culture or Creative Arts Course
X		X		X			X	RADR 2235	Radiologic Technology Seminar
X		X	X	X	X	X	X	RADR 2366	Practicum V

COMPETENCY REFERENCES

	8 **Basic use of computers**
	7 **Workplace Competencies**: resources; interpersonal skills; information; systems; and technology.
	6 **Personal Qualities**: A worker must display responsibility, self-esteem, sociability, self-management, integrity, and honesty.
	5 **Thinking Skills**: A worker must think creatively, make decisions, solve problems, visualize, know how to learn, and reason effectively.
	4 **Speaking and Listening**: Organize ideas and communicate orally; receive, attend to, interpret, and respond to verbal messages and other cues.
	3 **Arithmetic or Mathematics**: Perform basic computations and approach practical problems by choosing appropriately from a variety of mathematical techniques.
	2 **Writing**: Communicate thoughts, ideas, information, and messages in writing, and create documents such as letters, directions, manuals, reports, graphs, and flow charts.
	1 **Reading**: Locate, understand, and interpret written information in prose and in documents such as manuals, graphs, and schedules.

Academic Year: 2018-2019

SCANS COMPETENCIES FOR PROGRAM: Radiologic Technology

Competency	Course where Competency is Assessed	Method of Assessment	Improvements as a Result of Assessment Findings
1 READING: Locate, understand, and interpret written information in prose and in documents such as manuals, graphs, and schedules.	RADR 2117	Reading Report Our benchmark for the Reading report will be 90 on a scale of 100	2018-91.8% average (Article: Multiple Sclerosis: An update) Benchmark met We used an article from the ASRT journal and the students did very well. We will keep this measure for next the next cycle.
2 WRITING: Communicate thoughts, ideas, information, and messages in writing, and create documents such as letters, directions, manuals, reports, graphs, and flow charts.	RADR 2117	Research Paper Our benchmark for the Research Paper will be a 65 on a scale of 75.	2019- The average score for 16 students was 71.56 out of 75 The benchmark met. Action Plan: Although we have used this instrument for a few years it is a good overall writing assignment utilizing research, and shows how well our students are able to demonstrate their written skills.
3 ARITHMETIC OR MATHEMATICS: Perform basic computations and approach practical problems by choosing appropriately from a variety of mathematical techniques.	RADR 1313 RADR 2309	Final Exam-1313 Final Exam-2309 Final Exam 1313- Our benchmark will be an 75 on a Scale of 100. Final Exam 2309- Our benchmark will be 75 on a scale of 100	2019-RADR 1313 83.73% class average on the final exam. 2018-RADR 2309 84.25% class average on final exam We are meeting our benchmark and we will keep this measure.
4 SPEAKING AND LISTENING: Organize ideas and communicate orally; receive, attend to, interpret, and respond to verbal messages and other cues.	RADR 2117 RADR 1409	Speaking Assignment/Research Film-Doctor Listening Assignment Speaking- Our benchmark Will be a 15 on a scale of 25. Listening-Our benchmark will be a 95 on a scale of 100	Speaking RADR 2117(2018) result was 23.75 on a scale of 25 so they did very well. We will continue to use this tool and measure. Listening: RADR 1409-(2018) the Doctor the students scored an average of 89.3 which did not meet the benchmark. We will change this assignment for the next cycle.

Competency	Course where Competency is Assessed	Method of Assessment	Improvements as a Result of Assessment Findings
5 THINKING SKILLS: A worker must think creatively, make decisions, solve problems, visualize, know how to learn, and reason effectively.	RADR 2331	RADR 2366 Clinical Problem Solving section in Trajecsys. The student average score will be an 8 on a scale of 6-10	2019- Benchmark Met: 69% scored 10 10% scored 9 25.5% scored 8 Action Plan: A larger percentage of students are still scoring an 8 in their 3d semester so we need to address this issue and see if that can be raised to at least a 9. We will change the score from 8 to 9 so our expectations are higher.
6 PERSONAL QUALITIES: A worker must display responsibility, self-esteem, sociability, self-management, integrity, and honesty.	RADR 2366	Clinical Performance Evaluation - Ethics 90% of student forms will be marked with a 10(scale1-10)	2019-RADR 2366 Overall 71% of students scored a 10 on the evaluation Benchmark not met. Action Plan: While the 71% is below the benchmark it is noted that one student scored below average in ethics and all others not meeting the benchmark scored Good or Above average. More exercises and emphasis will be stressed within the didactic courses. Continue to monitor
7 WORKPLACE COMPETENCIES: resources; interpersonal skills; information; systems; and technology	RADR 1266	Master List Competencies Clinical Performance Evaluation Our benchmark will be set at 85% will score 70 on the Master List of Clinical Objectives score in RADR 1266	2018 10/10 were marked with 'Y" to radiation protection of patient So 100% Benchmark was met. Action Plan: We will continue to use this measure and tool for the next assessment cycle. Our student value ALARA and making sure our patients are protected.
8 BASIC USE OF COMPUTERS	RADR 2335	HESI Modules using Computer Applications Our benchmark will be set at 75% of students will score a	2019-87.5% of students scored either a "900" on the HESI or a 65 or higher on the

Competency	Course where Competency is Assessed	Method of Assessment	Improvements as a Result of Assessment Findings
		65 (due to the difficulty) on a scale of 1-100. For the average of the four registry sections.	Practice Exam. We did meet the benchmark but two students were not successful. This is a good measure of their abilities