

WESTERN DAKOTA TECHNICAL COLLEGE

RADIOLOGIC TECHNOLOGY

Associate of Applied Science, 79 Credit Hours, 36-40-Month Program

Students in radiographic technology acquire the necessary knowledge and skills to utilize radiation in disease diagnosis under the supervision of a physician. This program integrates academic learning with practical instruction, laboratory work, and over 900 hours of supervised clinical training to equip students for careers as radiologic technologists. Coursework covers patient care, radiographic anatomy and positioning, radiation safety and effects, X-ray generation, radiographic pathology, and advancements in X-ray technology. Students also gain practical experience in patient care, problem-solving, and effective communication within healthcare teams.

Course No.	Course Title	Credits
General Education Requirements		
CMST 101	FOUNDATIONS OF COMMUNICATION	3
CSC 105	MICROCOMPUTER SOFTWARE APPLICATIONS I	3
ENGL 101	ENGLISH COMPOSITION I*	3
MATH 105	MATHEMATICAL REASONING**	3
PSYC 101	GENERAL PSYCHOLOGY <i>or</i>	3
SOC 100	INTRODUCTION TO SOCIOLOGY	
Total		15
Technical Requirements		
HC 114	ANATOMY & PHYSIOLOGY FOR THE HEALTH PROFESSIONS	3
HC 116	ANATOMY & PHYSIOLOGY FOR THE HEALTH PROFESSIONS LAB	1
HC 213	MEDICAL TERMINOLOGY	3
RAD 120	RADIOLOGIC PROCEDURES I	4
RAD 125	IMAGING PHYSICS	4
RAD 130	DIGITAL IMAGE ACQUISITION & DISPLAY	3
RAD 135	RADIOLOGIC PROCEDURES II	4
RAD 140	IMAGE EVALUATION	2
RAD 175	RADIOLOGY CLINICAL I	4
RAD 180	RADIOLOGY CLINICAL II	4
RAD 199	RADIOLOGY CLINICAL III	4
RAD 225	PRINCIPLES OF IMAGING & ETHICS	3
RAD 230	RADIOLOGIC PATHOLOGY	3
RAD 235	ADVANCED MODALITIES	3
RAD 240	RADIATION BIOLOGY & PROTECTION	3
RAD 245	REGISTRY REVIEW	2
RAD 275	RADIOLOGY CLINICAL IV	5
RAD 280	RADIOLOGY CLINICAL V	6
Total		64

*Prerequisite: Acceptable ACCUPLACER score or Basic Writing.

**Prerequisite: Acceptable ACCUPLACER score or Basic Math.

Clinicals, practicums, and internships may include, but are not limited to, differential shifts, (evenings, nights, weekends, and holidays) to meet industry expectations. This may require travel outside of the Rapid City area.

Semester breakdown on next page

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TECHNICAL COLLEGE

Semester Breakdown

Prerequisite Semester (Spring)			CR			
CMST 101	Fundamentals of Speech		3			
HC 114	Anatomy & Physiology		3			
HC 116	Anatomy & Physiology Lab		1			
HC 213	Medical Terminology		3			
MATH 105	Mathematical Reasoning		3			
PSYC 101	General Psychology <i>or</i>		3			
SOC 100	Introduction to Sociology		3			
Total Credit Hours			16			
Fall Semester			CR	Spring Semester		
RAD 115	Patient Care in Radiologic Sciences		4	CSC 105	Microcomputer Software Applications <i>or</i>	3
RAD 120	Radiologic Procedures I		4	HUM 100	Introduction to Humanities	3
RAD 125	Imaging Physics		3	RAD 130	Digital Image Acquisition & Display	3
RAD 175	Radiology Clinical I		4	RAD 135	Radiologic Procedures II	4
				RAD 180	Radiology Clinical II	4
Total Credit Hours			15	Total Credit Hours		
				14		
Summer Semester						
RAD 140	Image Evaluation		2			
RAD 199	Radiology Clinical III		4			
Total Credit Hours			6			
Fall Semester			CR	Spring Semester		
ENGL 101	English Composition I		3	RAD 235	Advanced Modalities	3
RAD 225	Principles of Imaging & Ethics		3	RAD 240	Radiation Biology & Protection	3
RAD 230	Radiologic Pathology		3	RAD 245	Registry Review	2
RAD 275	Radiology Clinical IV		5	RAD 280	Radiology Clinical V	6
Total Credit Hours			14	Total Credit Hours		
				14		

If you are or have been convicted, pleaded guilty or no contest to, or received a suspended imposition of sentence for a felony or certain misdemeanors, you are advised that you may not be able to complete all course requirements for your chosen program, you may be prevented from taking required certification/licensure examinations in your chosen program field, and you may be prevented from gaining employment in your program field.

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Semester Breakdown

<p style="text-align: center;">Prerequisite Semester (Fall)</p>		CR	<p style="text-align: center;">Prerequisite Semester (Spring)</p>		CR
CMST 101	Fundamentals of Speech	3	CSC 105	Microcomputer Software Applications <i>or</i>	3
HC 213	Medical Terminology	3	HUM 100	Introduction to Humanities	
MATH 105	Mathematical Reasoning	3	ENGL 101	English Composition I	3
PSYC 101	General Psychology <i>or</i>	3	HC 114	Anatomy & Physiology	1
SOC 100	Introduction to Sociology	3	HC 116	Anatomy & Physiology Lab	3
Total Credit Hours		12	Total Credit Hours		10
<p style="text-align: center;">Fall Semester</p>		CR	<p style="text-align: center;">Spring Semester</p>		CR
RAD 115	Patient Care in Radiologic Sciences	4	RAD 130	Digital Image Acquisition & Display	3
RAD 120	Radiologic Procedures I	4	RAD 135	Radiologic Procedures II	4
RAD 125	Imaging Physics	3	RAD 180	Radiology Clinical II	4
RAD 175	Radiology Clinical I	4			
Total Credit Hours		15	Total Credit Hours		11
<p style="text-align: center;">Summer Semester</p>					
RAD 140	Image Evaluation	2			
RAD 199	Radiology Clinical III	4			
Total Credit Hours		6			
<p style="text-align: center;">Fall Semester</p>		CR	<p style="text-align: center;">Spring Semester</p>		CR
RAD 225	Principles of Imaging & Ethics	3	RAD 235	Advanced Modalities	3
RAD 230	Radiologic Pathology	3	RAD 240	Radiation Biology & Protection	3
RAD 275	Radiology Clinical IV	5	RAD 245	Registry Review	2
			RAD 280	Radiology Clinical V	6
Total Credit Hours		11	Total Credit Hours		14

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