

# 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.

**This is a highly competitive program, and not all applicants will secure a seat in the Radiologic Technology Courses.**

Course	No.	Course Title	Credits
<b>General Education Requirements</b>			
CMST	101	FOUNDATIONS OF COMMUNICATION	3
CSC	105	MICROCOMPUTER SOFTWARE APPLICATIONS I <i>or</i>	3
HUM	100	INTRODUCTION TO HUMANITIES	
ENGL	101	ENGLISH COMPOSITION I*	3
MATH	105	MATHEMATICAL REASONING**	3
PSYC	101	GENERAL PSYCHOLOGY <i>or</i>	3
SOC	100	INTRODUCTION TO SOCIOLOGY	
<b>Total</b>			<b>15</b>
<b>Technical Requirements</b>			
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	115	PATIENT CARE IN RADIOLOGIC SCIENCES	3
RAD	120	RADIOLOGIC PROCEDURES I	4
RAD	125	IMAGING PHYSICS	3
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
<b>Total</b>			<b>64</b>

\*Prerequisite: Acceptable ACCUPLACER score or Basic Writing.

\*\*Prerequisite: Acceptable ACCUPLACER score.

Note: All courses in the Radiologic Technology program must be completed with a C or better.

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.

Professional licensure and certification requirements often vary from state to state. Educational requirements by state for this program can be found <https://www.wdt.edu/degree-programs/radiologic-technology/>.

Students must be 18 years old by Sept 1 of the semester they enter program technical courses due to accreditation regulation  
**Semester breakdown on next page** **2025-2026 Academic Catalog 5/2025**

Apply online today at [wdt.edu](https://www.wdt.edu) or call Admissions Department  
 at (605) 718-2565 or email [admissions@wdt.edu](mailto:admissions@wdt.edu)

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# WESTERN DAKOTA

## TECHNICAL COLLEGE

### Semester Breakdown – Spring Start

The following prerequisite courses (CMST 101, HC 114, HC 116, HC 213, MATH 105, PSYC 101/SOC 100) must be completed with a C or better by the end of the spring semester to apply to RAD technical courses beginning the following fall. All courses in the program must be completed with a C or better to graduate from the Radiologic Technologies program.

<b>Prerequisite Semester (Spring)</b>					
CMST 101	Foundations of Communication	CR 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				
<b>Total Credit Hours</b>		<b>16</b>			
<b>Fall Semester</b>			<b>Spring Semester</b>		
RAD 115	Patient Care in Radiologic Sciences	4	CSC 105	Microcomputer Software Applications <i>or</i>	CR 3
RAD 120	Radiologic Procedures I	4	HUM 100	Introduction to Humanities	
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
<b>Total Credit Hours</b>		<b>15</b>	<b>Total Credit Hours</b>		<b>14</b>
<b>Summer Semester</b>					
RAD 140	Image Evaluation	2			
RAD 199	Radiology Clinical III	4			
<b>Total Credit Hours</b>		<b>6</b>			
<b>Fall Semester</b>			<b>Spring Semester</b>		
ENGL 101	English Composition I	CR 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
<b>Total Credit Hours</b>		<b>14</b>	<b>Total Credit Hours</b>		<b>14</b>

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.

# WESTERN DAKOTA

## TECHNICAL COLLEGE

### Semester Breakdown – Fall Start

The following prerequisite courses (CMST 101, HC 114, HC 116, HC 213, MATH 105, PSYC 101/SOC 100) must be completed with a C or better by the end of the spring semester to apply to RAD technical courses beginning the following fall. All courses in the program must be completed with a C or better to graduate from the Radiologic Technologies program.

Prerequisite Semester (Fall)			Prerequisite Semester (Spring)		
CMST 101	Foundation of Communication	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	3
SOC 100	Introduction to Sociology		HC 116	Anatomy & Physiology Lab	1
Total Credit Hours		12	Total Credit Hours		10
Fall Semester			Spring Semester		
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
Summer Semester					
RAD 140	Image Evaluation	2			
RAD 199	Radiology Clinical III	4			
Total Credit Hours		6			
Fall Semester			Spring Semester		
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