

RAD 1504 - Introduction to Radiologic Science and Patient Care

Fall 2026 Syllabus, Section 02, CRN 43930,

Credit hours: 2

Instructor

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Public Instructor Information

Professional Qualifications: Associate of Applied Science Radiologic Technology, Kent State University, 2008

Bachelor of Radiologic and Imaging Sciences Technology, Kent State University, 2011

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Course Description

1504. This course will provide the student radiographer with the basic concepts of patient care and the responsibilities of the radiographer. Venipuncture technique, body mechanics, vital signs, aseptic and non-aseptic technique, hospital emergencies, comfort measures, transporting, contrast media and pharmacology are included. The student will also learn the history of radiology, basic radiation protection, production and control of the x-ray beam, professionalism, ethical and legal considerations, and medical terminology. Prereq.: Admittance to the Radiology Program. 2 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Introduction to Radiologic and Imaging Sciences	Arlene M. Adler, Richard R. Carlton and Kori L. Stewart	9780323872249

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

Schedule of Topics and Assignments

Day	Date	Reading(s)	Proposed Topic	Due/To Prepare for Class
Mon	8/24	Syllabus	Course Orientation and Program Expectations	
Wed	8/26	Chapter 1, 7 - 9	Introduction to Radiologic Technology	
Mon	8/31	Chapter 2 and 5	Radiographer and Clinical Environment	
Wed	9/2	Chapter 11 Clover Learning: Radiography Patient Care: Interpersonal Communication, Imaging Patient Verification and Interaction	Patient Communication	ASSIGN: Assignment 1: Patient Communication Scenario
Mon	9/7	No Class		
Wed	9/9	Chapter 10 and 11 Clover Learning: Radiography Patient Care: Interpersonal Communication, Communication Challenges—Language Barriers and Young Patients; Communication Challenges—Physical and Cognitive Impairments	Communication Barriers and Diversity	QUIZ 1



Mon	9/14	Chapter 12 Clover Learning: Radiography Patient Care: Interpersonal Communication, Imaging Patient Verification and Interaction	Patient Identification and History	DUE: Assignment 1
Wed	9/16	Chapter 24, 26 Clover Learning: Patient Care: Legal and Ethical Issues, Considerations for Patient Interactions, Consent—Informed; Consent—Expressed and Implied; Capacity and Mental Competency	Patient Rights and Consent	ASSIGN: Assignment 2: Patient Assessment and Documentation
Mon	9/21	Chapter 13-14 Clover Learning: Radiography Patient Care, Monitoring Patients, Assisting Patients in Imaging Labs	Patient Transfers and Safety	QUIZ 2
Wed	9/23	Chapter 15 Clover Learning: Radiography Patient Care, Monitoring Patients, Vital Signs	Vital Signs and Pain Assessment	
Mon	9/28	Chapter 17 Clover Learning: Patient Care: Infection Control, Asepsis and Precautions, Hand Hygiene; CDC Standard Precautions	Clinical Readiness and Standard Precautions	DUE: Assignment 2
Wed	9/30	Chapter 15 Clover Learning: Radiography Patient Care, Monitoring Patients, Assisting Patients—Medical Equipment	Oxygen, Tubes, and Lines	QUIZ 3
Mon	10/5	Chapter 24-26 Clover Learning: Patient Care: Legal and Ethical Issues, Guidelines and Regulations, HIPAA; Patient's Bill of Rights; Standard of Care; Code of Ethics	Ethics, Law, and Documentation	ASSIGN: Assignment 3: Ethics, Law, and Documentation Case Analysis—
Wed	10/7	Chapters 1–2, 5, 7–15, 17, and 24–26, assigned sections	Review for Exam 1	
Mon	10/12		EXAM 1	
Wed	10/14	Chapter 17-18 Clover Learning: Patient Care: Infection Control, Pathogens and Chain of Infection, Pathogens; Chain of Infection; Asepsis and Precautions, Asepsis; Surgical Asepsis	Infection Control	DUE: Assignment 3 ASSIGN: Assignment 4: Infection-Control Case Analysis
Mon	10/19	Chapter 17-19 Clover Learning: Patient Care: Infection Control, Transmission-Based Precautions; Neutropenic Isolation Guidelines; Toxic or Hazardous Materials, Toxic or Hazardous Material Types; Safety Data Sheets	Isolation and Hazardous Materials	
Wed	10/21	Chapter 20 Clover Learning: Radiography Patient Care, Medical Emergencies, Allergic Reactions; Cardiac/Respiratory Arrest	Medical Emergencies I	QUIZ 4 DUE: Assignment 4 ASSIGN: Assignment 5: Emergency Response Scenario
Mon	10/26	Chapter 20 Clover Learning: Radiography Patient Care, Medical Emergencies, AED; CPR	Medical Emergencies II	
Wed	10/28	Chapters 17-20	Review for Exam 2	QUIZ 5 DUE: Assignment 5
Mon	11/2		EXAM 2	
Wed	11/4	Chapter 21	Pharmacology Basics	
Mon	11/9	Chapter 22	Medication Administration	



Wed	11/11	No Class		
Mon	11/16	Chapter 23 Clover Learning: Radiography Patient Care, Contrast Administration, IV Contrast— Properties; IV Contrast—Patient Preparation; Contrast—Barium Sulfate	Contrast Media and Patient Screening	QUIZ 6 ASSIGN: Assignment 6: Contrast Screening and Dose Calculation
Wed	11/18	Chapters 22-23 Clover Learning: Radiography Patient Care, Contrast Administration, IV Contrast— Complications	Venipuncture and Contrast Reactions	
Mon	11/23	Chapters 21-23	Review for Exam 3	DUE: Assignment 6
Wed	11/25	No Class		
Mon	11/30		EXAM 3	
Wed	12/2		Final Exam Review	
Mon	12/7	100pm - 300pm	Final Exam	

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