Montgomery County Community College RAD 100 Introduction to Radiography and Patient Care 3-3-0

COURSE DESCRIPTION:

This course will provide the student with an overview of the foundations in radiography and the practitioner's role in the health care delivery system. Principles, practices, and policies of the health care organizations will be examined and discussed in addition to the professional responsibilities of the radiographer. Communication skills and professional conduct of the radiographer in the clinical setting will also be introduced. Basic concepts of patient care, physical and psychological needs of the patient, and routine and emergency patient care will be described. Human diversity in health care will be discussed and its impact in the treatment of patients. In addition, a self-teaching workbook and self-assessments will be utilized to learn medical terminology.

REQUISITES:

Previous Course Requirements

- BIO 131 Human Anatomy and Physiology I with a minimum grade of "C" within 2 attempts within the last 5 years of the date of enrollment in RAD 100
- BIO 132 Human Anatomy and Physiology II with a minimum grade of "C" within 2 attempts within the last 5 years of the date of enrollment in RAD 100
- MATH 106 or any other Quantitative Reasoning course except ACC 110 and MAT 103, with a minimum grade of "C" within 2 attempts within the last 5 years of the date of enrollment in RAD 100

Previous or Concurrent Course Requirements

- RAD 106 Radiographic Image Production and Analysis
- RAD 104 Clinical Education I
- RAD 111 Radiographic Procedures I

LEARNING OUTCOMES	LEARNING ACTIVITIES	EVALUATION METHODS
Upon successful completion of this course, the student will be able to:		
 Identify the role of the radiographer in the 	Lecture/Discussion Demonstration/Practice	Abstracts Radiation Protection

	patient's total health care.	Case Study	Assignment
		Student Presentation Assigned Readings Written Experiences	Discussion Questions and Group Interaction
2.	Discuss the interrelationship between personal, community and societal values as they relate to utilization of the health care system.	Lecture/Discussion Case Study Role Play Assigned Readings Written Experiences On-Line Searches	Cultural Assignment Discussion Questions and Group Interaction Examination
3.	Describe general environmental safety precautions.	Lecture/Discussion Assigned Readings Written Experiences On-Line Searches Infections Control Video	Hand Washing Competency Surgical Asepsis Skills Competency Examination Discussion Questions and Group Interaction
4.	Demonstrate correct principles of body mechanics.	Lecture/Discussion Demonstration/Practice Assigned Readings Skills Competency	Skills Rubric Examination
5.	Perform proper procedures for determining vital signs and obtain results.	Lecture/Discussion Demonstration/Practice Assigned Readings Skills Competency	Skills Rubric Examination
6.	Explain concepts of personal honesty, integrity and compassion in health care.	Lecture/Discussion Role Play Student Presentation Assigned Readings Written Experiences	Standards of Ethics Assignment Discussion Questions and Group Interaction Ethical Issue Assignment

	On-Line Searches	
 Perform basic venipuncture procedure through a competence examination process 	bemonstration/Practice	Skills Rubric Examinations
8. Exhibit verbal and wr proficiency in medica terminology.		Medical Terminology Exams Abstract I & II Poster Presentation Examinations
 Discuss basic radiati safety concepts and describe the potentia of radiation exposure when asked. 	I risk Student Presentation	Radiation Protection Assignment Discussion Questions and Group Interaction Examination
10. Explain Radiography related pharmacolog it relates to patient procedures and precautions.		Patient Safety Assignment Group Interaction Examinations

At the conclusion of each semester/session, assessment of the learning outcomes will be completed by course faculty using the listed evaluation method(s). Aggregated results will be submitted to the Director of Educational Effectiveness. The benchmark for each learning outcome is that 70% of students will meet or exceed outcome criteria.

SEQUENCE OF TOPICS:

- 1. Medical Terminology
- 2. The Health Science Professions
- 3. The Health Care Environment
- 4. Hospital and Radiology Organization
- 5. Accrediting and Credentialing
- 6. Professional Organizations
- 7. Professional Development and Values
- 8. Culture, Ethnicity and Diversity

- 9. The Radiographer and the Health Care Team
- 10. Attitudes and Communication in Patient Care
- 11. Safety and Transfer Positioning
- 12. Infection Control
- 13. Evaluating Physical Needs
- 14. Medical Emergencies
- 15. Venipuncture and Pharmacology

LEARNING MATERIALS:

JRCERT Standards for an Accredited Educational Program in Radiologic Sciences

ARRT Code of Ethics for a Radiographer

<u>Texts</u>:

Adler, A., Carlton, R., Stewart, K. (2023). *Introduction to Radiography and Patient Care* (8th ed.). Philadelphia, PA: W.B. Saunders.

Cohen, B & Jones, S (2021). *Medical Terminology; An Illustrated Guide*, Burlington, MA: Jones & Bartlett Learning.

Other learning materials may be required and made available directly to the student and/or via the College's Libraries and/or course management system.

COURSE APPROVAL:

Prepared by:	Debra Poelhuis, M.S., R.T.		Date:	5/2004	
Revised by:	Debra Poelhuis, M.S., R.T.		Date:	1/2009	
VPAA/Provost Compliance Verification: Dr. John C. Flynn, Jr.			Date:	9/11/2009	
Revised by:	Debra Poelhuis, R.T., M.S.		Date:	10/26/2012	
VPAA/Provost or designee Compliance Verification:					
	Victoria L. Bastecki-Perez,	Ed.D.	Date:	10/26/2012	
Revised by:	Cheryl L. DiLanzo		Date:	10/28/2016	
VPAA/Provost or designee Compliance Verification:					
	Victoria L. Bastecki-Perez,	Ed.D.	Date:	11/17/2016	
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Revised by: Cheryl L. DiLanzo and Debbie Dalrymple	Date: 1/8/2018	
VPAA/Provost or designee Compliance Verification:		
Victoria L. Bastecki-Perez, Ed.D.	Date: 1/9/2018	
Revised by: Cheryl L. DiLanzo	Date: 4/2/2020	
Provost or designee Compliance Verification:	Date: 4/2/2020	
Revised by: Dana Smith, M.S., R.T.	Date: 3/7/2024	

VPAA or designee Compliance Verification:

Date: 3/27/2024

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This course is consistent with Montgomery County Community College's mission. It was developed, approved and will be delivered in full compliance with the policies and procedures established by the College.