

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 100 Intermediate Algebra or higher 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 102 Radiographic Exposure and Technique
- RAD 104 Clinical Education I
- RAD 111 Radiographic Procedures I

LEARNING OUTCOMES Upon successful completion of this course, the student will be able to:	LEARNING ACTIVITIES	EVALUATION METHODS
1. Identify the role of the radiographer in the patient's total health care.	Lecture/Discussion Demonstration/Practice Case Study Student Presentation Assigned Readings Written Experiences	Abstracts Radiation Protection Assignment 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 Diversity Poster and Presentation The Story of Abigail Activity Discussion Questions and Group Interaction

LEARNING OUTCOMES	LEARNING ACTIVITIES	EVALUATION METHODS
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.	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 On-Line Searches	Standards of Ethics Assignment Discussion Questions and Group Interaction Ethical Issue Assignment
7. Perform basic venipuncture procedures through a competency examination process.	Lecture/Discussion Demonstration/Practice Assigned Readings Skills Competency	Skills Rubric Examinations
8. Exhibit verbal and written proficiency in medical terminology.	Demonstration/Practice Case Study Student Presentation Assigned Readings Written Experiences On-Line Searches	Medical Terminology Exams Abstract I & II Poster Presentation Examinations
9. Discuss basic radiation safety concepts.	Lecture/Discussion Student Presentation Assigned Readings Written Experiences On-Line Searches	Radiation Protection Assignment Discussion Questions and Group Interaction Examination
10. Explain Radiography related pharmacology as it relates to patient procedures and precautions.	Lecture/Discussion Assigned readings Written Experiences	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 Associate Vice President of Academic Affairs. 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

Texts:

Adler, A., Carlton, R. (2016). *Introduction to Radiography and Patient Care* (6th ed.). Philadelphia, PA: W.B. Saunders.

Willis, M., (2012). *Medical Terminology; Quick and Concise*, Baltimore, MD: Lippincott.

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

Revised by: Cheryl L. DiLanzo and Debbie Dalrymple
VPAA/Provost or designee Compliance Verification:
Victoria L. Bastecki-Perez, Ed.D.

Date: 1/8/2018

Date: 1/9/2018

Revised by: Cheryl L. DiLanzo
Provost or designee Compliance Verification:

Date: 4/2/2020

Date: 4/2/2020



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.