JEFFERSON COLLEGE
COURSE SYLLABUS

RAD130
Patient Care Management
2 Credit Hours

Revised by: Janet E. Akers BS RT (R)(M)
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RAD130 Patient Care Management

I. CATALOGUE DESCRIPTION

A. Prerequisites: Acceptance to Radiologic Technology Program, Reading Proficiency

B. Credit hour award: 2

A. Description: This course focuses on technological and assessment skills and concepts required to build a foundation for holistic care of patients. The student gains a beginning understanding of the nurse’s responsibilities as a member of the interdisciplinary health care team so to apply that understanding to the diagnostic imaging environment. Instruction will introduce the basic concepts of cultural and legal aspects of patient care, vital signs, medical asepsis and infection control, hygiene, body mechanics and mobility, safety, documentation, evaluation of physical needs and surgical asepsis. (F)

II. EXPECTED LEARNING OUTCOMES/CORRESPONDING ASSESSMENT MEASURES

<table>
<thead>
<tr>
<th>Expected Learning Outcomes</th>
<th>Assessment Measures</th>
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<tbody>
<tr>
<td>Demonstrate basic explanations while performing patient care skills.</td>
<td>Written Assignments</td>
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<td>Class Discussion/Activity</td>
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<td>Written Examinations</td>
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<td>Competency Check off</td>
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<td>Demonstrate select patient care skills in an efficient, accurate and professionally accountable manner.</td>
<td>Written Assignments</td>
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<td>Class Discussion/Activity</td>
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<td>Written Examinations</td>
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<td>Demonstrate principles of medical and surgical asepsis.</td>
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<td>Class Discussion/Activity</td>
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<td>Written Examinations</td>
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<td>Record findings and procedures in a legally appropriate manner.</td>
<td>Written Assignments</td>
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<td>Class Discussion/Activity</td>
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<td>Written Examinations</td>
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Create a safe environment while performing basic patient care skills.  
Class Discussion/Activity  
Written Assignments  
Written Examinations  
Competency Check off

Demonstrate routine patient transfer and immobilization techniques.  
Class Discussion/Activity  
Written Examinations  
Competency Check off

Explain the importance of observing a patient’s vital signs and status.  
Class Discussion/Activity  
Written Examinations  
Competency Check off

Describe proper standard precautions and practice appropriate infection Control.  
Class Discussion/Activity  
Written Examinations  
Competency Check off

Describe actions, indications, precautions and documentation procedures related to drug administration.  
Class Discussion/Activity  
Written Examinations  
Competency Check off

Examine medical emergencies.  
Class Discussion/Activity  
Written Examinations

III. OUTLINE OF TOPICS

A. Professionalism and Communication in Patient Care
   1. Age- and generation-specific communication
      i. Neonatal
      ii. Pediatric
      iii. Adolescence
      iv. Young adulthood
      v. Middle adulthood
      vi. Geriatric
   2. Psychological considerations
      i. Dying and death
         1. Understanding the process
         2. Aspects of death
            a. Emotional
            b. Personal
            c. Physical
      3. Stages of grief
         a. Denial
         b. Anger
         c. Bargaining
         d. Depression
         e. Acceptance
      4. Patient support services
         a. Family/friends
         b. Pastoral care
         c. Patient-to-patient support groups
d. Psychological support groups
   e. Hospice
   f. Home care
ii. Factors affecting patient’s emotional responses
    1. Age
    2. Gender
    3. Marital/family status
    4. Socioeconomic factors
    5. Cultural/religious variations
    6. Physical condition
    7. Self-image
    8. Past health care experiences
    9. Beliefs
    10. Attitudes
    11. Prejudices
    12. Self-awareness
B. Patient/Radiographer Interactions
   1. Patient identification methods
      i. Interviewing/questioning
      ii. Chart/requisition
      iii. Wrist band
      iv. Institution-specific
   2. Procedure questions and explanations
      i. Positioning
      ii. Length of procedure
      iii. Immobilization devices
      iv. Machine movement/sounds
   3. Interaction with patient’s family members and friends
C. Safety and Transfer Positioning
   1. Environmental safety
      i. Fire
      ii. Electrical
      iii. Hazardous materials
      iv. Radioactive materials
      v. Personal belongings
      vi. Occupational Safety and Health Administration (OSHA)
      vii. Environmental Protection Agency (EPA)
   2. Body mechanics
      i. Proper body alignment
      ii. Proper movement
3. Patient transfer and movement
   i. Assess the patient’s mobility
   ii. Rules for safe patient transfer
   iii. Wheelchair transfers
   iv. Stretcher transfers
   v. Sheet transfer
   vi. Three-carrier lift
   vii. Log roll
   viii. Positioning for safety, comfort or exams
   ix. Transfer devices
4. Fall prevention
5. Safety and immobilization
   i. Types
   ii. Applications
   iii. Devices
     1. Adult
     2. Pediatric
6. Magnetic Resonance Safety
   i. Pacemakers and other implanted devices
   ii. Aneurysm clips
   iii. Oxygen (O2) containers
7. Incident reporting
   i. Legal considerations
   ii. Documentation
   iii. Procedures
8. Emergencies
   i. Types of emergency situations within the hospital
   ii. Crash carts
   iii. Responsibilities

D. Evaluating Physical Needs
1. Assess patient status
   i. Evaluation methodology
   ii. Clinical information
2. Vital signs – ranges and values
   i. Temperature
   ii. Pulse
   iii. Respiration
   iv. Blood pressure
   v. Normal values
   vi. Interfering factors
vii. Terminology
viii. Adult vs. pediatric
ix. Documentation
tax. Pain assessment
xi. Body type
3. Acquiring and recording vital signs
4. Procedures
5. Demonstration
6. Laboratory data
   i. Blood urea nitrogen (BUN)
   ii. Creatinine
   iii. Glomerular filtration rate (GFR)
   iv. Hemoglobin
   v. Red blood cells (RBCs)
   vi. Platelets
   vii. Oxygen (O2) saturation
   viii. Prothrombin
   ix. Partial thromboplastin time
7. Patient chart (paper and electronic)
   i. Aspects of patient chart
   ii. Retrieval of specific information
   iii. Proper documentation in the chart
8. Infection Control
   i. Terminology
   ii. Hospital acquired
   iii. Communicable
   iv. Infectious pathogens
   v. Human immunodeficiency virus (HIV)
   vi. Hepatitis
   vii. Multidrug-resistant organisms (MDRO)
   viii. Other
9. Center for Disease Control and Prevention (CDC)
   i. Purpose
   ii. Publications and bulletins
10. Cycle of infection
    i. Infectious pathogens – blood borne and airborne
    ii. Reservoir of infection
    iii. Susceptible host
    iv. Transmission of disease
       1. Direct
       2. Indirect
11. Prevent disease transmission
    i. Transmission-based precautions
    ii. Health care worker
       1. Immunization
       2. Booster
3. Post-exposure protocols

12. Asepsis
   i. Medical
      1. Hand washing
      2. Chemical disinfectants
   ii. Surgical
      1. Growth requirements for microorganisms
      2. Methods used to control microorganisms
         a. Moist heat
         b. Dry heat
         c. Gas
         d. Chemicals
   3. Procedures
      a. Opening packs
      b. Gowning/gloving
      c. Skin preparation
      d. Draping
      e. Dressing changes
   4. Packing
   5. Storage
   6. Linen
   iii. Isolation techniques and communicable diseases
      1. Category-specific
      2. Disease-specific
      3. Standard precautions
   iv. Isolation patient in radiology department
      1. Procedure
         a. Gowning
         b. Gloving
         c. Masking
      2. Patient transfer
      3. Cleaning and proper disposal of contaminated waste
      4. Cleaning image receptors and imaging equipment
   v. Precautions for the compromised patient (reverse isolation)
      1. Purpose
      2. Procedure
   vi. Psychological considerations

E. Oxygen administration
   1. Values
   2. Oxygen therapy
   3. Oxygen delivery systems
      i. Low-flow systems
      ii. High-flow systems
   4. Documentation
   5. Special precautions

F. Urinary collection
1. Procedure
   i. Male
   ii. Female
2. Alternative methods of urinary drainage
3. Documentation
   G. Ostomies
   1. Ileostomy
   2. Ureteroileostomy

IV. METHOD(S) OF INSTRUCTION

This course is taught using a variety of instructional methods, which include but are not limited to interactive lectures, computer presentations, group activities and exercises, videos, supplemental handouts and student presentations. Students are expected to be *ACTIVE* participants in the learning process. Students are expected to read the assigned readings prior to scheduled class meetings and come to class prepared to actively participate in all activities.

V. REQUIRED TEXTBOOK(S)

SUPPLEMENTAL TEXTBOOK

VI. REQUIRED MATERIALS

   A. A computer with internet access and basic software to include Word and Power Point (available through Jefferson College labs)
   B. Course homepage available through Blackboard
   C. Binder, paper, pens, pencils with erasers, highlighters

VII. SUPPLEMENTAL REFERENCES

   A. Class Handouts
   B. Library Resources
      1. Textbooks
      2. Periodicals
      3. Films On Demand Videos
   C. Internet Resources
      1. On-line references
      2. Textbook companion website

VIII. METHOD OF EVALUATION (basis for determining course grade)

*GRADES* – Grades will be based on the percentage of total points earned out of total points possible for this semester. The assignments will vary in the number of
possible points based upon amount of work involved and complexity of material. A final semester grade of 80% or above must be achieved in both the classroom and lab sections of this course to successfully complete this course.

EXAMS – All exams with scores less than 75% must be retaken until a score of 75% or above is achieved to complete course requirements. The original score will be used to figure the semester grade. The student will be allowed to retake an exam a maximum of two times. If the student has not passed an exam within the three designated attempts, the student will present to the review board and may be dismissed from the program. The student must contact the instructor prior to any absence to make arrangements for retesting. Until course requirements are met the final grade will be an incomplete.

If an exam is not taken at the scheduled time and arrangements for a make-up exam have not been made prior to the designated exam time, the grade for that exam will be zero. No make-up exam will be considered unless the instructor is personally notified prior to the absence. If a student arranges to take the exam at other than the scheduled time, 5% will be deducted from the grade on that exam. Make-up exams are scheduled at the convenience of the instructor. Student’s grade will also be based on participation in class and attendance.

ASSIGNMENTS- In order to be prepared for each class meeting, the student should complete each homework assignment prior to the following class meeting.

All assignments must be typewritten and are due at the beginning of class on the assigned due dates. Late assignments will not be accepted. In-class quizzes and assignments cannot be made up.
A. Grading Scale: (Jefferson College Radiologic Technology Program’s)
   A= 100-92%
   B= 91.9-86%
   C= 85.9-80%
   D= 79.9-70%
   F= 69.9 and below
   I= Incomplete
   W= Excused withdrawal from course

IX. ADA AA STATEMENT

Any student requiring special accommodations should inform the instructor and the Coordinator of Disability Support Services (Library; phone 636-481-3169).

X. ACADEMIC HONESTY STATEMENT

All students are responsible for complying with campus policies as stated in the Student Handbook (see College website, http://www.jeffco.edu).
XI. ATTENDANCE STATEMENT

Students earn their financial aid by regularly attending and actively participating in their coursework. If a student does not actively participate, he/she may have to return financial aid funds. Consult the College Catalog or a Student Financial Services representative for more details. Student’s grade will also be based on participation in class and attendance.

XII. OUTSIDE OF CLASS ACADEMICALLY-RELATED ACTIVITIES

The US Department of Education mandates that students be made aware of expectations regarding coursework to be completed outside the classroom. Students are expected to spend substantial time outside of class meetings engaging in academically-related activities such as reading, studying, and completing assignments. Specifically, time spent on academically-related activities outside of class combined with time spent in class meetings is expected to be a minimum of 37.5 hours over the duration of the term for each credit hour.