



A POLYTECHNIC INSTITUTION

School of Health Sciences

Program: Nuclear Medicine

Option:

NURS 1181
Patient Care**Start Date:** January, 2006**End Date:** May, 2006**Total Hours:** 60 **Total Weeks:** 20**Term/Level:** 2 **Course Credits:** 4**Hours/Week:** 3 **Lecture:** 2 **Lab:** 1**Shop:** **Seminar:** **Other:****Prerequisites****NURS ¹¹⁸¹~~2180~~ is a Prerequisite for:****Course No. Course Name****Course No. Course Name****□ Course Description**

This course assists the student to understand the hospital environment and the health problems of the patient. The scheduling of content and classes is designed to complement the theory and skills required by the student in classes and practicum experiences offered through the Nuclear Medicine Department. This course is offered through the Bachelor of Technology Nursing Program.

□ Detailed Course Description

The purpose of this course is to provide students with knowledge and skills required to provide patient care in the Nuclear Medicine department. In-class assignments and supervised laboratory activities are designed to give students opportunities to apply their critical thinking and manual skills to a variety of patient care situations.

□ Evaluation

Midterm Exam #1	30%
Midterm Exam #2	35%
Final Exam	35%
TOTAL	100%

Comments:

To successfully pass this course, the student must:

1. achieve a course mark of 60% or better.
2. successfully complete the Student Progress Sheet.
3. complete all assignments.

□ **Course Learning Outcomes/Competencies**

Upon successful completion of this course the student will be able to:

1. Assess a patient.
2. Explain the required interventions when working with individuals who are violent or have the potential to be violent.
3. Describe the contribution technologists make as members of the health care team.
4. Identify patient care components in practicum situations.
5. With supervision, perform skills in a manner which ensures safety and promotes comfort:
 - a. moving, positioning and transferring
 - b. medical asepsis (BSP, Standard, Routine precautions) and surgical asepsis
 - c. personal hygiene and elimination needs
 - d. comfort measures
 - e. dressing and undressing patients
 - f. fire carries
 - g. managing tubes and special equipment
 - h. handling wheelchairs and stretchers
 - i. intramuscular injections
 - j. measure and record temperature, pulse, respirations and pulse oximetry
 - k. measure and record blood pressures
 - l. pharyngeal suctioning
 - m. oxygen administration
 - n. maintaining I.V. therapy
 - o. isolation precautions
 - p. measure blood glucose levels
6. Employ proper body mechanics.
7. Communicate significant data to other health care personnel.
8. Assess patients during medical emergencies and identify the needed interventions.
9. Recognize the physical needs of patients with disabilities.
10. Identify unsafe conditions and fire hazards in hospitals.
11. Describe the needs of the unconscious patient.
12. Describe and assess the needs of the patient in pain and/or experiencing abnormal sensations.
13. Identify equipment and measures used to prevent pressure sores.
14. Discuss the procedure for admitting a patient to the Nuclear Medicine department.

☐ **Course Learning Outcomes/Competencies (cont'd)**

15. Understand the emotional climate in critical care areas and the skills needed to be able to function in this environment.
16. Describe the functions of persons attending a cardiac arrest.

☐ **Verification**

I verify that the content of this course outline is current.

Elaine Fraser
Authoring Instructor

Nov. 23, 2004
Date

I verify that this course outline has been reviewed.

Elaine Fraser
Program Head/Chief Instructor

Nov 23, 2004
Date

I verify that this course outline complies with BCIT policy.

[Signature]
Dean/Associate Dean

Nov. 24/04.
Date

Note: Should changes be required to the content of this course outline, students will be given reasonable notice.

□ **Instructor(s)**

Elaine Fraser

Office Location: SE12-435
Office Hrs.: posted at desk

Office Phone: 604-432-8468
E-mail Address: Elaine_Fraser@bcit.ca

□ **Learning Resources**

Required:

Selected required readings from the following texts:

Kozier, B., Erb, G., Berman, A., & Snyder, S. (2004). *Fundamentals of nursing: Concepts, process and practice* (7th ed.). Upper Saddle River, NJ: Pearson Education.

Kozier, B., Erb, G., Berman, A., Burke, K., Bouchal, D., & Hirst, S. (2000). *Fundamentals of nursing: The nature of nursing practice in Canada*. Toronto: Prentice-Hall.

Binders containing the required text readings are available on reserve in the library under the following:

Call number	RES NURS 1181
Title	NURS 1181 Patient Care Readings
Instructor	Elaine Fraser

□ **Information for Students**

Assignments: Assignments must be done on an individual basis unless otherwise specified by the instructor. All in-class assignments must be completed and submitted. If the student is absent when an assignment is due a remedial assignment will be made available for completion and submission.

Makeup Tests, Exams or Quizzes: There will be **no** makeup tests, exams or quizzes. If you miss a test, exam or quiz, you will receive zero marks. Exceptions may be made for **documented** medical reasons or extenuating circumstances. In such a case, it is the responsibility of the student to inform the instructor **immediately**.

Ethics: BCIT assumes that all students attending the Institute will follow a high standard of ethics. Incidents of cheating or plagiarism may, therefore, result in a grade of zero for the assignment, quiz, test, exam, or project for all parties involved and/or expulsion from the course. Incidents of abuse of information technology may result in expulsion from the course.

Attendance: The attendance policy as outlined in the current BCIT Calendar will be enforced.

Illness: A doctor's note is required for any illness causing you to miss assignments, quizzes, tests, projects, or exam. At the discretion of the instructor, you may complete the work missed or have the work prorated.

☐ **Information for Students (continued)**

Course Outline Changes: The material or schedule specified in this course outline may be changed by the instructor. If changes are required, they will be announced in class.

☐ **Note:**

This course utilizes self-contained modules, lectures, group discussions, co-operative learning, demonstration and laboratory practice to present the required course material. This course is designed to enable the student to understand, describe, and implement common and specific patient care skills in order to care effectively for patients in the Nuclear Medicine department.

The student is expected to complete all assigned readings prior to the designated class time and to come to class prepared to discuss and participate in a constructive manner.

Assignments are designed to assist the student to integrate patient care skills into the work and routines of the Nuclear Medicine department.

Schedule

Week of/ Number	Outcome/Material Covered
Fri. Jan. 6	1. Introduction to Course • Outcomes, use of materials, readings
Fri. Jan. 6	1. Orientation to use of Lab • Hospital bed unit • Wheelchairs and stretchers • Restraints and bed rails • Student's responsibilities in lab • Prevention of accidents in the lab 2. The Health Care Team
Fri. Jan. 13	1. Body Mechanics
Fri. Jan. 13	1. Body Mechanics (continued) 2. Promoting Fire Safety and Accident Prevention 3. LAB: Fire Carries
Fri. Jan. 20	1. Assessment Skills
Fri. Jan. 20	1. Promoting Patient Comfort and Rest 2. Admitting a Patient
Fri. Jan. 27	1. Patient with Physical Disabilities 2. Pain and Abnormal Sensations
Fri. Jan. 27	1. Medical Asepsis 2. Isolation Precautions 3. Surgical Asepsis
Fri. Feb. 3	1. The Critically Ill Patient

Week of/ Number	Outcome/Material Covered
Fri. Feb. 3	1. Medical Asepsis, Isolation Precautions & Surgical Asepsis (continued) 2. LAB: • Hand washing • Don and Remove a mask, gown and clean gloves • Sterile Procedures: Open gloving Opening sterile packages Setting up sterile trays
Fri. Feb. 10	1. Temperature, Pulse, Respirations 2. Pulse Oximetry
Fri. Feb. 10	1. Meeting Elimination Needs 2. Dressing and Undressing Patients 3. LAB: • Bedpans and Urinals • Use of Attends, Benefits, Depends • Dressing and Undressing Patients
Fri. Feb. 17	1. Sample Exam Questions 2. Blood Pressure
Fri. Feb. 17	1. LAB: T, P, R & Pulse Oximetry Measurement 2. LAB: BP Measurement
Fri. Feb. 24	1. LAB: T, P, R & Pulse Oximetry Measurement (cont'd) 2. LAB: BP Measurement (cont'd)
Fri. Feb. 24	MID TERM EXAM #1 (2 hours)
Fri. Mar. 3	1. Exam Review 2. Cardiac Arrest in the Hospital

Week of/ Number	Outcome/Material Covered
Fri. Mar. 3	1. Medical Emergencies (including Glucometers) 2. The Unconscious Patient
Fri. Mar 10	1. Intramuscular Injections
Fri. Mar 10	1. LAB: Manipulating syringes and needles; withdrawing solutions 2. LAB: Giving Intramuscular Injections – Deltoid site
Mar. 13 - 17	SPRING BREAK
Fri. Mar. 24	1. Working with the Violent Individual
Fri. Mar. 24	1. Management of Tubes and Special Attachments 2. Working with Patients who have Pressure Sores 3. LAB: Demonstration of Equipment
Fri. Mar 31	1. Incident Reports
Fri. Mar. 31	MID TERM EXAM #2 (2 hours)
Fri. Apr. 7	BCIT OPEN HOUSE – no class
Fri. Apr. 14	GOOD FRIDAY
Fri. Apr. 21	1. Exam Review 2. Positioning and Moving Patients 3. Transfers and Lifts
Fri. Apr. 21	1. LAB: Positioning and Moving Patients 2. LAB: Transfers and Lifts

Week of/ Number	Outcome/Material Covered
Fri. Apr. 28	1. The Patient's Chart (Record)
Fri. Apr. 28	1. LAB: Positioning and Moving Patients (continued) 2. LAB: Transfers and Lifts (continued)
Fri. May 5	1. Intravenous Therapy #1
Fri. May 5	1. LAB: Use of I.V. Equipment #1
Fri. May 12	1. Intravenous Therapy #2
Fri. May 12	1. LAB: Use of I.V. Equipment #2
Fri. May 19	1. Pharyngeal Suctioning
Fri. May 19	1. Respiratory Distress and Oxygen Therapy 2. LAB: Use of Oxygen Equipment 3. Completion of Student Progress Sheets 4. Evaluations
May 23 – 26	EXAM WEEK

Appendix: Nuclear Medicine Competency Profile

The following competencies are addressed in NURS 1181: Patient Care

Perform Patient and Technical Preparation

2. Verify patient identification and written orders
3. Ensure informed consent is obtained
4. Obtain pertinent patient history and respond appropriately
8. Ensure basic nursing and medical needs are met

Perform Technical Preparation

3. Select and prepare ancillary equipment

Perform Procedure

2. Use appropriate positioning aids and discretion when positioning patient
3. Employ proper body mechanics when moving patients
4. Evaluate patient condition and adjust procedure accordingly
5. Perform procedure in accordance with protocol
6. Record relevant information on requisition or chart

C5 Dispense Radiopharmaceuticals

Dispense the correct volume of the drug or radiopharmaceutical

C6 Perform General Laboratory Procedures

Handle and dispose of all sharps (e.g., glass, needles) appropriately

E1 Respond to Emergency Situations

Follow emergency procedures in response to the patient's changing status, using equipment and procedures recommended by the hospital

Respond appropriately to emergency situations (e.g., fire, disasters)

E3 Monitor and Practice Medical Radiation Technology According to Professional, Legal and Ethical Standards

Demonstrate personal responsibility for obtaining/maintaining professional competence

Maintain confidentiality of patient records

F1 Use Appropriate Communication Techniques

Explain procedures at an appropriate level of understanding for the patient, providing an interpreter when necessary

Ensure informed consent is obtained

Respond to patient and family anxieties and concerns

F2 Use appropriate Safe Work Habits

Provide a clean, safe environment for both patient and technologist

Employ proper body mechanics when transferring, lifting, turning or transporting a patient

F3 Ensure Basic Nursing and Medical Needs Are Met

Set up and ensure proper delivery of oxygen

Monitor the patient's condition for signs of distress, and react to them promptly and appropriately to limit patient discomfort

Determine and record vital signs

Employ appropriate isolation techniques

Employ appropriate infection control techniques

Set up and ensure proper delivery of intravenous fluids

Assist the patient in using a urinal, bedpan or k-basin

Assemble proper materials for intravenous and oral drug and radiopharmaceutical administration