A POLYTECHNIC INSTITUTION

Course Outline

School of Health Sciences
Program: Nuclear Medicine
Option:

NURS 1181
Patient Care

Start Date:	January, 2007					**End Date:**	May, 2007		
Total Hours:	60	**Total Weeks:**	20			**Term/Level:**	2	**Course Credits:**	4
Hours/Week:	3	**Lecture:**	2	**Lab:**	1	**Shop:**		**Seminar:**	**Other:**

Prerequisites

Course No.	**Course Name**
None	

NURS 1181 is a Prerequisite for:

Course No.	**Course Name**
None	

■ 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. 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.

■ Course Learning Outcomes/Competencies (cont'd)

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

■ Verification

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

Cheryl Kilbeck — Authoring Instructor
November 17/06 — Date

I verify that this course outline has been reviewed.

Program Head/Chief Instructor
November 17/06 — Date

I verify that this course outline complies with BCIT policy.

Dean/Associate Dean
Nov. 17/06 — Date

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

■ Instructor(s)

Cheryl Kilback | Office Location: SE12-418 | Office Hrs.: By appointment | Office Phone: 604-453-4096 | E-mail Address: Cheryl_Kilback@bcit.ca

■ Learning Resources

Required:

Selected required readings from the following texts:

Kozier, B., Erb, G., Berman, A., & Synder, 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	Cheryl Kilback

■ Information for Students

(Information below can be adapted and supplemented as necessary.)

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 an expulsion from the course.

Attendance/Illness:
In case of illness or other unavoidable cause of absence, the student must communicate as soon as possible with his/her instructor or Program Head or Chief Instructor, indicating the reason for the absence. Prolonged illness of three or more consecutive days must have a BCIT medical certificate sent to the department. Excessive absence may result in failure or immediate withdrawal from the course or program.

■ Information for Students

Academic Misconduct:
Violations of academic integrity, including dishonesty in assignments, examinations, or other academic performances are prohibited and will be handled in accordance with the 'Violations of Standards of Conduct' section of Policy 5002.

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, cooperative 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
Friday, January 5	1. Introduction to the Course • Outcomes, use of materials, readings 2. Orientation to Use of the Lab • Hospital bed unit • Wheelchairs and stretchers • Restraints and bedrails • Student's responsibilities in the lab • Prevention of accidents in the lab 3. The Health Care Team
Friday, January 12	1. Body Mechanics 2. Promoting Fire Safety and Accident Prevention 3. Assessment Skills
Friday, January 19	1. Promoting Patient Comfort and Rest 2. Patient with Physical Disabilities 3. Pain and Abnormal Sensations
Friday, January 26	1. Admitting a Patient 2. The Critically Ill Patient 3. Medical Asepsis and Isolation Precautions
Friday, February 2	1. Surgical Asepsis 2. Medical Asepsis and Isolation Precautions (cont'd) 3. **LAB**: • Handwashing • Don and Remove a Mask, Gown, and Clean Gloves • Sterile Procedures: Open gloving Opening sterile packages Setting up sterile trays
Friday, February 9	1. Temperature, Pulse, Respirations 2. Meeting Elimination Needs 3. Dressing and Undressing Patients 4. **LAB**: • Bedpans and Urinals • Use of Attends, Benefits, Depends • Dressing and Undressing Patients
Friday, February 16	1. Sample Exam Questions 2. Blood Pressure and Oximetry 3. **LAB**: • T, P, R, and Pulse Oximetry Measurement • BP Measurement

Week of/ Number	Outcome/Material Covered
Friday, February 23	**LAB**: • T, P, R, and Pulse Oximetry Measurement (cont'd) • BP Measurement (cont'd) **MIDTERM EXAM #1 (1 hour 45 minutes)**
Friday, March 2	1. Midterm Exam #1 Review 2. Cardiac Arrest in the Hospital 3. Medical Emergencies (including Glucometers and Reactions to Contrast Medium) 4. The Unconscious Patient
Friday, March 9	1. Intramuscular Injections **LAB**: • Manipulating Syringes and Needles; Withdrawing Solutions • Giving Intramuscular Injections — Deltoid Site
March 12–16	**SPRING BREAK**
Friday, March 23	1. Working with the Violent Individual 2. Management of Tubes and Special Attachments 3. Working with Patients who have Pressure Sores **LAB**: • Demonstration of Equipment
Friday, March 30	1. Incident Reports **MIDTERM EXAM #2 (1 hour 45 minutes)**
Friday, April 6	**GOOD FRIDAY**
Friday, April 13	1. Midterm Exam #2 Review 2. The Patient's Chart 3. Transfers/Lifts and Positioning and Moving Patients **LAB**: • Positioning and Moving Patients/Transfers/Lifts
Friday, April 20	**LAB**: • Positioning and Moving Patients/Transfers/Lifts (cont'd)
Friday, April 27	1. Intravenous Therapy #1 **LAB**: • Use of IV Equipment #1
Friday, May 4	1. Intravenous Therapy #2 **LAB**: • Use of IV Equipment #2

Week of/ Number	Outcome/Material Covered
Friday, May 11	1. Pharyngeal Suctioning 2. Respiratory Distress and Oxygen Therapy 3. Completion of Student Progress Sheets 4. Evaluations **LAB**: • Use of Oxygen Equipment
Friday, May 18	Study/Review Class
May 22–25	**FINAL EXAM**

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

Student Name: _____

SKILL	INITIALS
Don and remove personal protective barriers — mask, gown, and clean gloves.	
Wash hands for one minute.	
Open sterile packages and set up a sterile dressing tray.	
Use of transfer forceps.	
Put on sterile gloves using the open gloving technique.	
Dress and undress your partner.	
Remove gown (tied at the top back), replace gown and re-tie new gown at the back.	
Change assistive elimination devices — Attends, Benefits, Promises, etc.	
Assist partner on and off a bedpan.	
Locate the following pulses: • radial • carotid • brachial.	
Accurately count a radial pulse.	
Accurately measure an oral temperature.	
Accurately measure a tympanic temperature.	
Accurately use a pulse oximetry unit.	
Accurately assess a blood pressure.	
Demonstrate sterile asepsis when handling syringes and needles.	
Prepare an IM injection.	
Administer an IM injection into partner's deltoid side.	
Locate the ventrogluteal and vastus lateralis sites on your partner.	
Assist a person with a suspected broken ***right*** wrist to walk down the hall.	

Using good body mechanics: • assist partner to a sitting position in bed and assist to lie down again.	
• With the bed in the ***high position (3' high)***, the head of the bed ***flat***, and using a footstool with handles, assist partner: ▸ from a chair to a sitting position on the side edge of the bed. ▸ to lie down. ▸ to sit up and over the edge of the bed. ▸ to step down and return to the chair.	
• By yourself, assist partner to sit up and over the edge of the adjustable bed.	
• With a turn sheet and two people, move partner towards the head of the bed.	
• Move partner to side of the bed ***using*** a pull sheet.	
• Turn partner from a supine to a 45-degree lateral position.	
• Support partner in the 45-degree lateral position and check body alignment.	
• Logroll a person from a lateral to a supine position.	
• One person pivot transfer partner (with an IV) ***from*** a W/C (or chair): ***No*** transfer belt used.	
• One person pivot transfer partner (with an IV) ***to*** a W/C (or chair): ***Using*** a transfer belt.	
• Straighten partner up in the wheelchair.	
• Using a slider board, transfer partner between a stretcher and a bed.	
• Assist partner to transfer between the bed and a wheelchair using a transfer board.	
Set up (prime) a new intravenous system.	
Change a near-empty IV bag.	
Regulate an IV at a prescribed rate.	
Remove air bubbles from IV tubing ***when the IV is infusing (running).***	
Change the gown of a patient with an IV.	
Regulate and maintain an IV pump.	
Discontinue an IV.	
Enter and re-establish the positive pressure in an IV lock system.	
Set up oxygen-nasal cannula on a doll.	
Operate portable oxygen tank and adjust flow rate to 6 L/min.	