



A POLYTECHNIC INSTITUTION

School of Health Sciences

Program: Bachelor of Technology in Radiation Therapy

Option:

NURS 5102
Patient Care**Start Date:** January, 2003**End Date:****Total Hours:** 51 **Total Weeks:** 17 **Term/Level:** 5 **Course Credits:** 3.5**Hours/Week:** 3 **Lecture:** Varies **Lab:** Varies **Shop:** **Seminar:** **Other:****Prerequisites****Course No. Course Name**

None

NURS 5102 is a Prerequisite for:**Course No. Course Name**

RADT 5500 Clinical Orientation

■ Course Description

The course provides a solid theory base for the delivery of safe patient care in potentially unstable or unpredictable situations. An introduction to the hospital environment, health problems of the patient, and the basic safety and comfort aspects to be considered when working with patients, carrying out a variety of procedures and working with equipment in the patient's environment are included along with content on legal and ethical issues in health care. Common emergencies, laboratory tests and pharmaceuticals specific to the Radiation Therapy department are included as well as an overview of Pediatric growth and development. A variety of patient care skills and procedures are practiced in the context of their use within the Radiation Therapy department and are reinforced using a variety of teaching and learning techniques.

■ Detailed Course Description

The student will be able to:

- interpret the significance of a variety of patient behaviours in predictable and unpredictable patient care situations.
- apply critical thinking skills when selecting appropriate interventions to implement in selected patient care situations that arise with the Radiation Therapy department.
- evaluate the effectiveness of patient care measures selected for variety of situations.

■ Evaluation

Participation	10%
Mid Term Exams (2)	60%
Final Exam	<u>30%</u>
TOTAL	100%

Comments: To successfully pass this course the student must:

1. achieve a final course grade of 60% or better.
2. successfully complete the Student Progress sheet.
3. complete and submit all assignments.

■ Course Learning Outcomes/Competencies

Upon successful completion, the student will be able to:

1. assess safety and comfort measures for the patient, colleagues and self when:
 - a. assessing temperature, pulse, respirations and blood pressure.
 - b. assessing the patient's weight.
 - c. moving, positioning, lifting and transferring.
 - d. assisting patients to meet their need for elimination.
 - e. assisting patients to dress and undress.
 - f. maintaining intravenous infusions.
 - g. working with patients who have tubes inserted and/or are attached to specialized equipment.
 - h. initiating oxygen therapy.
 - i. performing suctioning via the oral pharyngeal and tracheotomy routes.
2. apply standard (or routine) precautions and transmission-based (isolation) precautions to a variety of patient care situations.
3. adapt the principles of surgical asepsis to the following procedures:
 - a. applying a sterile dressing.
 - b. carrying out a surgical scrub.
4. select appropriate safety and comfort measures for the patient, family members, colleagues and self in a variety of pediatric radiation therapy situations.
5. select the required interventions when working with:
 - a. patients who have a physical and/or mental challenge.
 - b. patients experiencing nausea, pain, epistaxis, a cardiac arrest or anaphylactic shock.
 - c. a patient who is in shock, is hemorrhaging, is unconscious, and/or who is experiencing a seizure or a diabetic reaction.
 - d. patients who are dying.
 - e. patients who have pressure sores.
 - f. patients who are unconscious.
 - g. individuals who are violent or who have the potential to be violent.
 - h. ostomy patients.
6. outline the role(s) health professionals fulfill within the provincial and national health care systems.
7. explain the uses, mode of action, contraindications, side effects, and patient care implications for pharmaceuticals administered in the Radiation Therapy department.
8. assess the results of common laboratory tests and the appropriate actions to implement.
9. evaluate the ethical responsibilities of the radiation therapy technologist in a variety of patient care situations.
10. assess the legal responsibilities of the radiation therapy technologist related to:
 - a. documentation in the patient's record.
 - b. informed consent.
 - c. incident reports.
 - d. patient's rights.
 - e. permission to touch.
11. assess all patient situations when implementing care to ensure the patient's privacy and modesty is protected.

■ **Verification**

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

Authoring Instructor

Date

I verify that this course outline has been reviewed.

Program Head/Chief Instructor

Date

I verify that this course outline complies with BCIT policy.

Dean/Associate Dean

Date

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

■ Instructor(s)

Lisa Seaberly Office Location: SE12-418 Office Phone: 604-456-8071
Office Hrs.: Posted at desk E-mail Address: Lisa_Seaberly@bcit.ca

■ Learning Resources

Selected required readings following texts:

Kozier, B, Erb, G., Blais, K., & Wilkinson, J. (1998). *Fundamentals of nursing*, (updated 5th ed.).
Menlo Park, CA: Addison Wesley Longman.

Potter, P., and Perry, A. (1997). *Canadian fundamentals of nursing*. St. Louis: Mosby.

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

Call number: B-364 (2-day loan)
Title: Patient Care Readings (for readings from the Kozier text)
Instructor: Suzanne Craig/Elaine Fraser

Call number: B-1022 (2-day loan)
Title: Additional Patient Care Readings (for readings from the Potter text)
Instructor: Suzanne Craig/Elaine Fraser

Supplemental:

Torres, L.S. (1997). *Basic medical techniques and patient care for radiologic technologists* (5th ed.). Baltimore:
J.B. Lippincott.

■ Information for Students

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

Assignments: Late assignments, lab reports or projects will **not** be accepted for marking. Assignments must be done on an individual basis unless otherwise specified by the instructor.

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.

Attendance: The attendance policy as outlined in the current BCIT Calendar will be enforced. Attendance will be taken at the beginning of each session. Students not present at that time will be recorded as absent.

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.

Attempts: Students must successfully complete a course within a maximum of three attempts at the course. Students with two attempts in a single course will be allowed to repeat the course only upon special written permission from the Associate Dean. Students who have not successfully completed a course within three attempts will not be eligible to graduate from the appropriate program.

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.

■ Assignment Details

This course consists of lectures, modules, demonstrations, group discussion and laboratory practice. It is designed to enable the student to understand, describe and implement specific patient care skills in order to care effectively for patients undergoing tests or treatments in the Radiation Therapy department.

Assignments are designed to assist the student to integrate patient care skills in the Radiation Therapy Department. The student must complete all assigned readings and modules prior to the designated class time. Students are expected to come to class prepared to discuss and practice the designated skill and to demonstrate their ability to perform the skill to an instructor.

Please note that unforeseeable circumstances may necessitate the alteration of course content, sequencing, timing, and/or evaluation. Should alterations be required, as much as is possible, students will be given adequate notice of any such changes.

Schedule

Week of/ Number	Outcome/Material Covered
	Note: Modules contain all the required readings. For all other topics, refer to the objectives and packets for readings you must complete.
Jan. 8 (Room 416)	1. Introduction to Course <ul style="list-style-type: none"> • Outcomes, use of materials, readings 2. Orientation to use the lab <ul style="list-style-type: none"> • Hospital bed unit • Wheelchairs and stretchers • Restraints and bed rails • Student's responsibilities in lab • Prevention of accidents in the lab
Jan. 13 (Room 416)	1. The Health Care Team 2. Ethical and legal responsibilities
Jan. 15 (Room 416)	1. Body Mechanics
Jan. 20 (Room 416)	1. Positioning and Moving Patients 2. Lab <ul style="list-style-type: none"> • Fire carries • Positioning and moving patients
Jan. 22 (Room 416)	1. Transfers and Lifts 2. Lab <ul style="list-style-type: none"> • Transfer and lifts
Jan. 27 (Room 416)	1. Medical Asepsis 2. Surgical Asepsis 3. Isolation Precautions 4. Lab <ul style="list-style-type: none"> • Handwashing
Jan. 29 (Room 416)	1. Operating Room Apparel 2. Lab <ul style="list-style-type: none"> • Sterile procedures • Opening gloves • Opening sterile packages • Setting up sterile trays
Feb. 3 (Room 416)	1. Assessment Skills 2. Common Laboratory Values

Week of/ Number	Outcome/Material Covered
Feb. 5 (Room 416)	<ol style="list-style-type: none"> 1. The Patient's Chart 2. Informed Consent 3. Incident Report 4. Patient's Rights/Permission to Touch
Feb. 10 (Room 416)	<ol style="list-style-type: none"> 1. Temperature, Pulse, Respiration 2. Blood Pressure, Oximetry 3. Lab <ul style="list-style-type: none"> • Temperature, pulse, respiration, blood pressure measurement, oximetry monitoring
Feb. 12 (Room 416)	<ol style="list-style-type: none"> 1. Admitting a Patient 2. Practice Exam
Feb. 17 & 24	Students in Practicum
Mar. 3 (Room 416)	<ol style="list-style-type: none"> 1. Working with Patients who have Pressure Sores 2. Promoting Patient Comfort and Rest
Mar. 5 (Room 416)	MID TERM EXAM #1
Mar. 10	SPRING BREAK
Mar. 17 (Room 416)	<ol style="list-style-type: none"> 1. Meeting Elimination Needs 2. Lab <ul style="list-style-type: none"> • Bedpans and urinals • Use of attends, benefits, depends 3. Exam Review
Mar. 19 (Room 416)	<ol style="list-style-type: none"> 1. Pain and Abnormal Sensations
Mar. 24 (Room 416)	<ol style="list-style-type: none"> 1. Management of Tubes and Special Attachments
Mar. 26 (Room 416)	<ol style="list-style-type: none"> 1. Dressing and Undressing Patients 2. Lab <ul style="list-style-type: none"> • Dressing and undressing patients
Mar. 31 (Room 416)	<ol style="list-style-type: none"> 1. The Critically Ill Patient 2. The Unconscious Patient 3. The Anesthetized Patient
Apr. 2 (Room 416)	<ol style="list-style-type: none"> 1. Lab <ul style="list-style-type: none"> • Moving and positioning the unconscious and anesthetized patient
Apr. 7 (Room 416)	<ol style="list-style-type: none"> 1. Patient with Physical Disabilities 2. Respiratory Distress

Week of/ Number	Outcome/Material Covered
Apr. 9 (Room 416)	<ol style="list-style-type: none"> 1. Respiratory Distress and Oxygen Therapy 2. Pharyngeal Suctioning 3. Lab <ul style="list-style-type: none"> • Use of oxygen equipment
Apr. 14 (Room 416)	<ol style="list-style-type: none"> 1. Intravenous Therapy 2. Use of IV Equipment 3. Lab <ul style="list-style-type: none"> • Use of IV equipment 4. Contrast Media
Apr. 16 (Room 416)	MIDTERM EXAM #2
Apr. 21	EASTER MONDAY
Apr. 23 (Room 416)	<ol style="list-style-type: none"> 1. Working with the Violent Individual 2. Exam Review
Apr. 28 (Room 416)	<ol style="list-style-type: none"> 1. Dressing Changes 2. Lab <ul style="list-style-type: none"> • Dressing changes 3. Ostomy Care
Apr. 30	NO CLASS
May 5 (Room 416)	<ol style="list-style-type: none"> 1. Medical Emergencies 2. Lab <ul style="list-style-type: none"> • Medical emergencies
May 7 (Room 416)	<ol style="list-style-type: none"> 1. Patient Teaching 2. Nutrition
May 12 (Room 416)	<ol style="list-style-type: none"> 1. Cardiac Arrest 2. Cardiac Arrest Drugs 3. Lab <ul style="list-style-type: none"> • Cardiac arrest
May 14 (Room 416)	<ol style="list-style-type: none"> 1. Completion of Student Progress Sheets 2. Course Evaluation 3. Instructor Evaluation
May 19	VICTORIA DAY
May 21 (Room 416) 1330 – 1530	FINAL EXAM