A POLYTECHNIC INSTITUTION

Course Outline

School of Health Sciences
Program: Bachelor of Technology in Nursing
Option:

NURS 3020
Clinical Techniques 3 — Laboratory

Start Date:	January 9, 2006				**End Date:**	May 12, 2006			
Total Hours:	34	**Total Weeks:**	17		**Term/Level:**	4	**Course Credits:**	2	
Hours/Week:	2	**Lecture:**	1	**Lab:** 1	**Shop:**		**Seminar:**		**Other:**

Prerequisites

Course No.	Course Name
NURS 2020	Clinical Techniques 2

NURS 3020 is a Prerequisite for:

Course No.	Course Name
NURS 7030	Nursing Practicum

■ Course Description

This laboratory course presents nursing skills related to intermittent infusion devices, patient-controlled analgesia and epidural analgesia, complex wound care, gastrointestinal tubes, vascular access devices, enteral and parenteral nutrition, medication administration by IV push, urethral catheterization, blood glucose monitoring, administration of blood products, chest drainage systems, tracheostomy care, and neurological assessment. Emphasis is placed on: student understanding regarding the purpose of the skill, focused assessment related to the skill and safe and confident demonstration of the skill. The communication and research aspects of the skills are also included. Independent and laboratory practice, demonstrations, and examinations are part of the course.

■ Detailed Course Description

This course facilitates student learning of particular hands-on nursing skills used in professional nursing practice.

■ Evaluation

Midterm Multiple Choice Exam	50%
Final Multiple Choice Exam	50%
TOTAL	100%

Comments: To successfully complete this course, the student must:

1. participate in weekly practice labs according to the BCIT attendance policy.
2. achieve a final mark of 50%.

■ Course Learning Outcomes/Competencies

The student will:

1. describe the purpose of skill to the patient.
2. describe the safety principles for all nursing skills.
3. prepare a focused assessment of the patient related to the skill.
4. demonstrate selected skills competently and confidently while maintaining patient comfort.
5. demonstrate the communication aspects of nursing skills.
6. demonstrate responsibility for attaining and maintaining a safe level of skill performance.
7. plan patient teaching related to the skill.
8. think and reflect about nursing skills by:
   - 8.1 demonstrating awareness of the research base associated with the skills.
   - 8.2 recognizing the potential risks associated with the skills.
   - 8.3 making judgements about the skill considering the context.

■ Process Learning Threads

This course facilitates student growth in relation to these graduate outcomes:

- **Professionalism** — Students recognize the necessity to use sound assessment and clinical judgement in relation to skill performance. Students carry out skills safely while considering contextual and individual needs. They adhere to the standards for nursing practice in BC.

- **Communication** — Students use relevant and appropriate vocabulary when communicating about skills (verbally, in writing, and when using electronic charting). Students dialogue with colleagues and instructors in the process of learning

- **Systematic Inquiry** — Students have an increased awareness of relevant research related to skill performance. They use a variety of sources to understand what evidence supports skill protocols. They discuss evidence-based practice with health care professionals. Students raise questions about clinical techniques.

- **Professional Growth** — Students have individual responsibility in how skills are learned, practiced, and demonstrated. Students value continually updating knowledge to practice safely. Students are responsible and accountable for their actions.

- **Creative Leadership** — Students collaborate with other health professionals about skills. Students recognize the need to make decisions about skills. Students recognize the need to make decisions about skill performance in individual patient situations. Students recognize potential risks to the patient and carry out the skills in a manner that would not increase the risk to patients.

- **Technical Skills** — Laboratory class and practice assists the students to develop competency with the skills used in nursing practice.

■ Verification

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

L M Calder. — Authoring Instructor
Dec. 13/2005 — Date

I verify that this course outline has been reviewed.

[signature] — Program Head/Chief Instructor
Dec 14, 2005 — Date

I verify that this course outline complies with BCIT policy.

[signature] — Dean/Associate Dean
Dec. 15/05 — Date

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

■ Instructor

Lisa McKendrick-Calder Office Location: SE12–418 Office Phone: 604-454-2207
Office Hrs.: By appointment E-mail Address: lisa_mckendrick-calder@my.bcit.ca

Students are encouraged to contact me via e-mail or to set up an in-person meeting.

■ Learning Resources

Required Textbook:

Perry, A.G., & Potter, P.A. (2002). *Clinical nursing skills and techniques* (5th ed.). St. Louis, MO: Mosby, Inc.

BCIT. (2004). *Clinical techniques 3: Laboratory manua*l. Burnaby: Author.

***One of the following medical-surgical textbooks*:**

Black, J.M., & Metassarin-Jabos, E. (1997). *Medical-surgical nursing: Clinical management for continuity of care* (5th ed.). Philadelphia, PA: Saunders.

LeMone, P., & Burke, L.M. (1996). *Medical-surgical nursing: Critical thinking in client care*. Menlo Park, CA: Addison Wesley.

Phipps, W.J., Sands, J.K., & Marck, J.F. (1999). *Medical-surgical nursing: Concepts and clinical practice* (6th ed.). St. Louis, MO: Mosby.

Smeltzer, S.C., & Bare, B.C. (1996) *Brunner and Suddarth's textbook of medical-surgical nursing* (8th ed.). Philadelphia, PA: Lippincott.

Required Readings:

See course schedule and reading list.

■ Information for Students

The following statements are in accordance with the BCIT Student Regulations Policy 5002. To review the full policy, please refer to: http://www.bcit.ca/~presoff/5002.pdf.

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.

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.

■ Information for Students (cont'd.)

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 their respective program.

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**.

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.

1. Course delivery and evaluation methods will be discussed during the first week of the class.
2. Clinical techniques will be practiced during laboratory periods and open lab practice times.
3. Unforeseeable circumstances may necessitate the alteration of course content, sequencing, timing, or evaluation. As much as possible, students will be given adequate notice of such changes.

■ Assignment Details

1. **Midterm Multiple Choice Exam** *Midterm exam is worth 50% of total final grade.*

   The multiple choice and short answer exam will be based on the clinical techniques covered in Weeks 1–8.

2. **Final Multiple Choice Exam** *Final exam is worth 50% of total final grade.*

   A multiple choice and short answer exam will be given during examination week. The questions will be based on the skills from midterm to the end of the term (Weeks 10–16).

Schedule

Week of/ Number	Clinical Technique	Preparation/Learning Activity
Jan. 11 (1)	**Introduction to NURS 3020** • Review course outline • Discussion of evaluation methods • Required readings • Practice lab schedule • BCIT nursing students policies http://www.health.bcit.ca/nursing/info.htm **NURS 4030** • Capillary blood glucose monitoring – independent study – certification by practicum instructor on ward • Problem-solving activity	**NURS 3020 Lab Manual** • Finger-stick Blood Glucose Monitoring **Course Textbook** *Clinical nursing skills and techniques*, pp. 1196–1201 **Articles (Library Reserve or online)** Seley, J.J. (2003). Giving the fingers a rest. Alternative site testing eases blood glucose monitoring. *American Journal of Nursing, 103*(3), 73–77. Seley, J.J., & Quigley, L. (2000). Blood glucose testing. *American Journal of Nursing, 100*(8). Fleming, D. (1999). Challenging traditional insulin injection practices. *American Journal of Nursing, 99*(2), 72–74. Rankin, M., & Esteves, M. (1996). How to assess a research study. *American Journal of Nursing, 96*(12), 32–37.
Jan. 18 (2)	**Intravenous Therapy – Part 1** • Intermittent infusion devices • Establishing saline locks • Administering medications via saline locks	**NURS 3020 Lab Manual** • Intermittent Infusion Devices • Practice Lab Preparation Activities **Course Textbook** *Clinical nursing skills and techniques*, pp. 560–563; 539–546

Week of/ Number	Clinical Technique	Preparation/Learning Activity
Jan. 25 (3)	**Intravenous Therapy – Part 2** • Administering medications via IV push • Continuous IV and IV push medications • Intermittent infusion devices and IV push medications	**NURS 3020 Lab Manual** • IV Push Medications • Practice Lab Preparation Activities **Course Textbook** *Clinical nursing skills and techniques*, pp. 546–551 **Articles (Library Reserve)** Power, L. (1999). Boning up on IV push. *Canadian Nurse, 95*(10), 36–39. Skokal, W. (2000). IV push @ home. *RN, 63*(10), 26–30.

Week of/ Number	Clinical Technique	Preparation/Learning Activity
Feb. 1 (4)	**Intravenous Therapy – Part 3** • Central venous catheters (CVC) • Peripherally inserted central catheters (PICCs) • Assessment and management • Troubleshooting and emergency measures	**NURS 3020 Lab Manual** • Intravenous Therapy – Part 3 • Practice Lab Preparation Activities **Course Textbook** *Clinical nursing skills and techniques*, pp. 579–587; 684–685 **Articles** Hadaway, L. (2003). Infusing without infecting. *Nursing 2003, 33*(10), 58–63. Halderman, F. (2000). Selecting a vascular access device. *Nursing 2000, 30*(11), 59-61. Moureau, N. (2001). Preventing complications with vascular access devices. *Nursing 2001, 31*(7), 52–55. Sansivero, G.E. (1998). Why pick a PICC?: What you need to know. *Nursing CE Handbook.* Golway, R., Harrod, M.E., Crisp, J., Donnellan, R., Hardy, J., Harvey, A., Maurice, L., Petty, S., & Senner, A. (2003). *Paediatric Nursing, 15*(10), 14–18.
	Intravenous Therapy – Part 4 • Total parenteral nutrition	**NURS 3020 Lab Manual** • Intravenous Therapy – Part 4 • Problem Solving Activities **Course Textbook** *Clinical nursing skills and techniques*, pp. 692–699 **Articles (Library Reserve and online)** Hall, J.C. (1999). Choosing nutrition support: How and when to initiate. *Lippincott's Case Management (*formerly *Nursing Case Management), 4*(5). Gianino, S., Seltzer, R., & Eisenbert, P. (1996, February). The ABCs of TPN. *RN*, 42–48. McConnell, E.A. (2001). Clinical do's and don'ts: Administering total parenteral nutrition. *Nursing 2001*, *November*, p.17.

Week of/ Number	Clinical Technique	Preparation/Learning Activity
Feb. 8 **(5)**	**Complex Wound Management – Part 1** • Wound assessment • Wound/sinus irrigation • Moisture retentive dressings	**NURS 3020 Lab Manual** • Complex Wound Management – Part 1 • Practice Lab Preparation Activities **Course Textbook** *Clinical nursing skills and techniques*, pp. 1004–1015 **Articles** Doughty, D.B. (2004). Wound assessment: Tips and techniques. *Advances in Skin and Wound Care, 17*(7), 396–372. Griffiths, R.D. (2001). Is tap water a safe alternative to normal saline for wound irrigation in the community setting? *Journal of Wound Care, 10*(10), 407–411. Ovington, L.G. (2001). Hanging wet-to-dry dressings out to dry. *Home Healthcare Nurse, 19*(8). Mendez-Eastman, S. (2002). Negative-pressure wound therapy. *Nursing 2002, 32*(5), 58–64.
Feb. 15 **(6)**	**Complex Wound Management – Part 2** • Vascular insufficiency wounds • Pressure ulcer staging and treatment • Wound care products	**NURS 3020 Lab Manual** • Complex Wound Management – Part 2 • Practice Lab Preparation Activities **Course Textbook** *Clinical nursing skills and techniques*, pp. 164–190 **Articles** Ayello, E.A. (2001). Why is pressure ulcer risk assessment so important? *Nursing 2001, 31*(11), 74–79. Ovington, L.G. (2001). Wound care products: How to choose. *Advances in Skin and Wound Care: The Journal for Prevention and Healing, 14*(5).
Feb. 22 **(7)**	**BCIT PD DAY**	**NO CLASS**

Week of/ Number	Clinical Technique	Preparation/Learning Activity
Mar. 1 (8)	**Pain Management** Patient-controlled analgesia (PCA) Epidural analgesia Assessment and management • Problem-solving pain management problems	**NURS 3020 Lab Manual** Pain Management Practice Lab Preparation Activities **Course Textbook** **Articles** Pasero, C. (2003). Epidural analgesia for postoperative pain: Excellent analgesic and improved patient outcomes after major surgery. *American Journal of Nursing, 103(10)*, 62–64. Pasero, C. (2003). Epidural analgesia for postoperative pain. Part 2: Multimodal recovery programs improve patient outcomes. *American Journal of Nursing, 103(11)*, 43–45. Reiff, P.A., & Niziolek, M.M. (2001). Troubleshooting tips for PCA. *RN, 64*(4), 33–37.
Mar. 8 (9)	**MIDTERM EXAM**	
Week of March 13–17	**SPRING BREAK**	**NO CLASS**
Mar. 22 (10)	**Catheterization** • Urethral catheterization — male and female	**NURS 3020 Lab Manual** • Urethral Catheterization • Practice Lab Preparation Activities **Course Textbook** *Clinical nursing skills and techniques*, pp. 706–720 **Articles** Parker, L.J. (1999). Urinary catheter management: Minimizing the risk of infection. *British Journal of Nursing, 8*(9), 563–571. Robinson, J. (2001). Urethral catheter selection. *Nursing Standard, 15*(25), 39–42.

Week of/ Number	Clinical Technique	Preparation/Learning Activity
Mar. 29 (11)	**Intravenous Therapy – Part 5** • Blood product administration • Transfusion of packed red cells	**NURS 3020 Lab Manual** • Intravenous Therapy – Part 5 • Practice Lab Preparation Activities **Course Textbook** *Clinical nursing skills and techniques*, pp. 617–634 **Articles** Fitzpatrick, L., & Fitzpatrick, T. (1997, August). Blood transfusion: Keeping your patient safe. *Nursing 97*, 34–42.
Apr. 5 (12)	**Neurological Assessments** • Glasgow coma scale • Neurovital signs • Complex neurological assessments	**NURS 3020 Lab Manual** • Neurological Assessments • Practice Lab Preparation Activities **Course Textbook** Medical-Surgical Nursing Textbook – Neurological Assessment **Articles** Lower, J. (2002). Facing neuro assessment fearlessly. *Nursing 2002, 32*(2), 58–65. McLeod, A. (2004). Intra- and extracranial causes of alteration in level of consciousness. *British Journal of Nursing, 13(7)*, 354–361.

Week of/ Number	Clinical Technique	Preparation/Learning Activity
Mar. 12 (13)	**Gastrointestinal Tubes** • Nasogastric tube insertion and irrigation • Nasoenteral tubes • Gastrostomy (PEG tubes) and jejunostomy tubes **Enteral Nutritional Therapy** • Tube feedings	**NURS 3020 Lab Manual** • Gastrointestinal Tubes and Enteral Nutritional Therapy • Practice Lab Preparation Activities **Course Textbook** *Clinical nursing skills and techniques*, pp. 756–762; 676–680 **Articles** Bowers, S. (2000). All about tubes: Your guide to enteral feeding devices. *Nursing 2000, 30*(12). Keithley, J.K., & Swanson, B. (2004). Enteral nutrition: An update on practice recommendations. *Medsurg Nursing, 13(2)*, 131–134. Kohn-Keeth, C. (2000, March). How to keep feeding tubes flowing freely. *Nursing 2000*, 58–59. Morse, J.M., Penrod, J., Kassab, C., & Dellasega, C. (2000). Evaluating the efficiency and effectiveness of approaches to nasogastric tube insertion during trauma care. *American Journal of Critical Care, 9*(5), 325–333. Watt, R., & Lewis, R. (2001). Improving care for patients with gastrostomy tubes. *Canadian Nurse, 97*(10), 30–33. **Review: (TPN reading)** Hall, J.C. (1999). Choosing nutrition support: How and when to initiate. *Lippincott's Case Management* (formerly *Nursing Case Management*), *4*(5).

Week of/ Number	Clinical Technique	Preparation/Learning Activity
Mar. 19 (14)	**Tracheostomy Tubes** • Assessment and nursing management • Suctioning • Changing dressings/ties • Emergency measures	**NURS 3020 Lab Manual** • Tracheostomy Tubes • Practice Lab Preparation Activities **Course Textbook** *Clinical nursing skills and techniques*, pp. 371–374; 380–385 **Articles** Day, T., Farnell, S., Haynes, S., Wainwright, S., Wilson-Barnett, J. (2002). Tracheal suctioning: An exploration of nurses' knowledge and competence in acute and high dependency ward areas. *Journal of Advanced Nursing, 39*(1), 35–45. Kinloch, D. (1999). Instillation of normal saline during endotracheal suctioning: Effects on mixed venous oxygen saturation. *American Journal of Critical Care, 8*(4), 231–240. McConnell, E. (2000). Suctioning a tracheostomy tube. *Nursing 2000, 30*(1), 80.
Mar. 26 (15)	**Chest Drainage Systems** • Assessment and nursing management • Troubleshooting and emergency measures	**NURS 3020 Lab Manual** • Chest Drainage Systems • Practice Lab Preparation Activities **Course Textbook** *Clinical nursing skills and techniques*, pp. 391–402 **Articles** Blank-Reid, C., & Reid, P. (1999, April). Taking the tension out of traumatic pneumothorax. *Nursing 99*, 41–46. Lazzara, D. (2002). Eliminate the air of mystery from chest tubes. *Nursing 2002, 32*(6), 36–43.

Week of/ Number	Clinical Technique	Preparation/Learning Activity
May 3 (16)		**INDEPENDENT STUDY**
Week of May 8–12	**EXAM WEEK — FINAL EXAM TBA**	