

FEB - 5 1997



BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY

Course Outline **Part A**

School of Health Sciences

Program: Nursing

Option:

**NURS 2020**

**Clinical Techniques 2 – Laboratory**

---

Hours/Week:	3	Total Hours:	51	Term/Level:	2
Lecture:	1	Total Weeks:	17	Credits:	3.5
Lab:	2				
Other:					

---

### Prerequisites

**NURS 2020 is a Prerequisite for:**

Course No.	Course Name	Course No.	Course Name
NURS 1020	Clinical Techniques 1	NURS 3020	Clinical Techniques 3

---

### Course Goals

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

---

### Course Description

This laboratory course presents nursing skills related to relaxation therapies, surgical asepsis, wound care, injections, intravenous therapy, intravenous medications via mainbags and minibags, intravenous pumps, suprapubic catheters, colostomy care and bladder irrigations. Emphasis is placed on: student understanding regarding the purpose of the skill, focused assessment related to the skill and safe, confident demonstration of the skill. The communication and research aspects of skills are included. Student independent and laboratory practice, demonstrations, and examinations are part of the course.

---

### Evaluation

Multiple choice exam	50%
Skill demonstration	30%
Assignment	20%
TOTAL	100%

All evaluation strategies must be completed to pass this course.

**Skill testing** must be satisfactory to pass this course

## Course Outcomes and Sub-Outcomes

The student will:

1. Describe the purpose of the skill to the patient.
2. Describe the safety principles for all hands-on nursing skills.
3. Prepare a focused assessment of the patient related to the skill.
4. Demonstrate selected skills safely and confidently while maintaining patient comfort.
5. Demonstrate the communication aspects of hands-on 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 skill by:
  - appreciating the research base
  - recognizing real and potential risks associated with the skills
  - making judgments about the skill considering the context.

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

- **Leadership** — decision making, risk management, priority setting, collaboration with other Health Care professionals.
- **Communication** — patient teaching, appropriate documentation related to skills incorporating relevant vocabulary.
- **Systematic Inquiry** — increased awareness of relevant research related to skill performance, use of a variety of sources to understand what evidence supports skill protocols, questioning and reflection about clinical techniques.
- **Professionalism** — recognizing necessity to use sound assessment and clinical judgment in relation to skill performance, accountability in carrying out skills safely while considering contextual and individual needs.
- **Learning** — individual responsibility related to how skills are learned, practiced and demonstrated.

## Course Record

Developed by:

Kate Houseman  
Instructor Name and Department (signature)

Date:

December 4, 1996

Revised by:

[Signature]  
Instructor Name and Department (signature)

Date:

\_\_\_\_\_

Approved by:

M. Bernard-Ratsoy  
Associate Dean / Program Head (signature)

Start Date:

January 6, 1997



BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY

School of Health Sciences

Program: Nursing

Option:

Course Outline Part B

**NURS 2020**

**Clinical Techniques 2 – Laboratory**

---

### Effective Date

January 6, 1997

---

### Instructor(s)

Bev Lawes

Office No.: SW 12 418

Phone: 432-8788

Office Hrs.: See posted hours at instructor's office.

---

### Text(s) and Equipment

#### *Required:*

Snyder, M. (1992). *Independent nursing interventions*. (2<sup>nd</sup> ed.) Albany, New York: Delmar.

#### *One of the following Nursing Fundamentals Textbooks:*

Craven, R.F. & Hirnle, C.J. (1996). *Fundamentals of nursing: Human health and function*. (2<sup>nd</sup> ed.). Philadelphia: Lippincott Co.

Dugas, B.W. & Knor, E.R. (1995). *Nursing foundations: A Canadian perspective*. Scarborough, Ontario: Appleton & Lange, Canada.

#### *One of the following Skills Textbooks:*

Ellis, J.R., Nowlis, E. A., & Bentz, P.M. (1996). *Modules for Basic Nursing Skills. Volume II*, (6<sup>th</sup> ed.). Philadelphia: Lippincott Co.

Elkin, M.K., Perry, A.G. & Potter, P.A. (1996). *Nursing Interventions and Clinical Skills*. Toronto: Mosby.

#### *One of the following Medical-Surgical Textbooks:*

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

Smeltzer, S.C., & Bare, B.C. (1996). *Brunner & Suddarth's Textbook of Medical-Surgical Nursing*. (8<sup>th</sup> ed.). Philadelphia: Lippincott.

**Recommended:**

● **One of the following Mathematics for Medications Textbooks:**

Henke, G. (1995). *Med-Math: Dosage Calculation, Preparation and Administration*. (2<sup>nd</sup> ed.). Philadelphia: J.B. Lippincott Co.

Gray, D. (1994). *Calculate with Confidence*. St. Louis, MO: Mosby Year Book.

**Equipment:** watch with a second hand  
stethoscope  
tape measure  
penlight

---

**Course Notes (Policies and Procedures)**

1. Course delivery and evaluation methods will be discussed during the first week of the class.
2. Selected clinical techniques will be self-taught with testing during laboratory periods. Other techniques will be practiced during laboratory periods and tested at specific times on the class schedule. These are noted on the schedule.

**Participation/Attendance**

1. Regular attendance in theory class and practice laboratory is expected. Students may be recommended for a failing grade if absent for more than 10% of the time. (Refer to BCIT Policy 5201.)
2. Students are responsible for the content of a missed class.

## Assignment Details and Evaluation Methods

1. The **multiple choice exam** will be given during examination week.
2. **Skill testing** weeks are noted on the schedule. Students will randomly chose one of the following skills to demonstrate: **dressing change (wound with drain), IV trouble shooting or preparation of a medication into an intravenous minibag.** Demonstration of specific techniques will be graded satisfactory/unsatisfactory according to criteria on a checklist that students will see prior to the test. *If the demonstration is satisfactory the student is awarded 30%.* One opportunity to retake this test will be offered. **The student must achieve a satisfactory standing in skill testing in order to pass the course.**
3. **Assignment:**

Students are expected to work in pairs on this assignment. This assignment is worth 20% of the total final mark. The assignment is a **poster presentation** related to the following:

- A *nursing research-based study* that is of interest to you and that relates to the content in this course.

### Expectations regarding this assignment:

The following guidelines apply:

- The poster needs to include: *a title, the author' names, the abstract, information related to the design that includes a description of the sample and the data gathering methods used, summary of the findings, conclusions, and implications for nursing practice.* This information needs to be taken from the study and presented on the poster in a clear manner. Samples are available as examples.
- Creativity is encouraged. Decisions need to be made on how to condense the research study using lists, charts, tables, pictures, and prose. The poster needs to be visually dynamic. The aim of the presentation is to illustrate research findings in a manner that is visually appealing and easy to read from about 2 feet away.
- Students are expected to discuss their reasons for choosing the study and the relevance of the findings to current practice. Student pairs are expected to answer questions about the study during the poster presentation session. Students needs to have a hard copy of the research article for reference.
- The poster assignment will be awarded the 20% based on choice of appropriate research study and on ability to summarize, condense and communicate the study information clearly.

### Due date for the assignment: **March 21, 1997 at 0900**

*Students may negotiate an extension of the due date as long as it is negotiated at least 24 hours before the assignment is due.*

### Last date for negotiated extension: **March 28, 1997 at 0900**

*Posters that are submitted later than the due date without request for extension or later than the negotiated extension will be docked 1% of the 20% total per day the assignment is late.*



BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY

School of Health Sciences

Program: Nursing

Option:

Schedule

NURS 2020

Clinical Techniques 2 – Laboratory

1997 Week of	Material Covered	Reading required for class. Focus reading on material to be covered	Video Review	Due Date
Week 1  January 6–10	<p>Introduction and review of course outline.</p> <p>Surgical Asepsis:</p> <ul style="list-style-type: none"> <li>• principles of surgical asepsis</li> <li>• hand washing</li> <li>• applying and removing a mask</li> <li>• open gloving</li> </ul> <p>Adapted McMaster handout</p> <p><i>Application of surgical aseptic principles to a task in class.</i></p>	<p><b>Required reading:</b></p>	<p><b>View in class:</b> BCIT videos:</p> <ul style="list-style-type: none"> <li>• Hand washing</li> <li>• Applying and removing masks</li> <li>• Gloving</li> </ul>	
Week 2  January 13–17	<p>In class practice with situations that require:</p> <ul style="list-style-type: none"> <li>• pre-op preparation and patient teaching</li> <li>• immediate post-op assessment</li> <li>• patient teaching associated with patient discharge</li> </ul>	<p><b>Required reading:</b> Any recommended Fundamentals of Nursing textbook or Skills textbook.</p>		

1997 Week of	Material Covered	Reading required for class. Focus reading on material to be covered	Video Review	Due Date
Week 3  January 20–24	Relaxation therapies: <ul style="list-style-type: none"> <li>• progressive relaxation</li> <li>• breathing</li> <li>• guided imagery (visualization to promote relaxation)</li> </ul>	<b>Required reading:</b> Snyder, M. (1992). Independent Nursing Interventions (2 <sup>nd</sup> ed.). Albany, New York: Delmar.		
Week 4  January 27–31	<b>Injections</b> <ul style="list-style-type: none"> <li>• parenteral equipment</li> <li>• factors that affect choice of equipment</li> <li>• preparation techniques</li> </ul> <p><b>Students will come to practice labs prepared to demonstrate drawing up medication from ampoules and vials</b></p>	<b>Required reading:</b> Any recommended Fundamentals of Nursing Textbook or Skills Textbook.  Self study guide.	<b>View before class:</b> BCIT 1992 and 1996 Drawing up medications from ampoules and vials.	

1997 Week of	Material Covered	Reading required for class. Focus reading on material to be covered	Video Review	Due Date
Week 5  February 3–7	<p>Review medication preparation techniques.</p> <p>Administering injections:</p> <ul style="list-style-type: none"> <li>• injection sites</li> <li>• factors that affect choice of site</li> <li>• subcutaneous injections</li> <li>• intradermal, injections</li> <li>• intramuscular injections</li> <li>• Z-track intramuscular injection</li> <li>• patient teaching required</li> <li>• documentation</li> </ul> <p><i>In class practice:</i> <i>Siting for subcutaneous, intradermal and intramuscular injection.</i> <i>Giving subcutaneous and intradermal injections.</i></p>	<p><b>Required reading:</b> Any recommended Fundamentals of Nursing Textbook or Skills Textbook</p> <p>Math for Meds book regarding calculation of dosages for injections.</p> <p><b>Required written work:</b> Complete math calculation test <u>before class to self test</u> <u>your learning.</u></p>	<p><b>View in class:</b> BCIT Subcutaneous Injections BCIT Intradermal Injections Foothills 1988 Ventrogluteal mapping BCIT 1986 Intramuscular, Dorsal gluteal Injection</p>	



1997 Week of	Material Covered	Reading required for class. Focus reading on material to be covered	Video Review	Due Date
Week 6 February 10–14	<p>Sterile dressing change:</p> <ul style="list-style-type: none"> <li>• purpose of wound cleansing</li> <li>• choosing a cleansing solution</li> <li>• choosing dressing materials</li> <li>• assessment pre, during and post dressing</li> <li>• comfort measures</li> <li>• patient teaching</li> <li>• documentation</li> <li>• method of changing a dressing</li> </ul> <p><i>In class practice on dolls</i></p>	<p><b>Required reading:</b> Any recommended Fundamental of Nursing Textbook or Skills Textbook</p>	<p><b>View in class:</b> BCIT 1986 Opening sterile packages and adding items to a sterile field BCIT 1989 Changing a simple dressing with a penrose drain.</p>	
Week 7 February 17–21	<p>Intravenous therapy:</p> <ul style="list-style-type: none"> <li>• purpose</li> <li>• types of solutions</li> <li>• equipment involved</li> <li>• assessment of an infusing intravenous</li> <li>• calculating and regulating drip rate,</li> <li>• monitoring intravenous infusions</li> <li>• discontinuing an intravenous</li> <li>• documentation</li> </ul> <p><i>Practice in class</i></p>	<p><b>Required reading:</b> Any recommended Fundamentals of Nursing Textbook or Skills textbook.</p> <p>Math for Meds book regarding calculation of intravenous drip rates</p> <p><b>Required written work:</b> Complete math calculation test <u>before class to self</u> <u>test learning.</u></p>	<p><b>View in class:</b> BCIT 1985 &amp; 1994- Intravenous Therapy (60 minutes)</p>	

1997 Week of	Material Covered	Reading required for class. Focus reading on material to be covered	Video Review	Due Date
Week 8 February 24–28	<p>Wound drains: shortening and removal</p> <ul style="list-style-type: none"> <li>• purpose of drains</li> <li>• related assessment</li> <li>• comfort measures</li> <li>• patient teaching</li> <li>• shortening a penrose drain</li> <li>• suture &amp; staple removal</li> <li>• tube management e.g. t- tube, closed drain and penrose drain</li> <li>• removal of drains</li> <li>• collecting a wound specimen</li> <li>• documentation</li> </ul> <p><i>Practice on dolls</i></p>	<p><b>Required reading;</b> Any recommended Fundamental Nursing Textbook or Skills Textbook.</p>	<p><b>View in class:</b> BCIT 1989 Shortening a penrose drain and removal of a closed drain BCIT 1991 Suture, staple and clip removal</p>	
Week 9 March 10–14	<p>Urinary catheters:</p> <ul style="list-style-type: none"> <li>• care related to urinary catheters</li> <li>• irrigation of catheters</li> <li>• collecting a sterile specimen</li> <li>• catheter removal</li> <li>• continuous bladder irrigation</li> <li>• documentation</li> </ul> <p><i>Practice on dolls</i></p>	<p><b>Required reading:</b> Any recommended Nursing Fundamentals Textbook or Skills Textbook.</p>	<p><b>View in class:</b> BCIT 1991 Bladder irrigation/Continuous Bladder Irrigation BCIT 1985 Catheter care - Sterile specimen collection.</p>	

1997 Week of	Material Covered	Reading required for class. Focus reading on material to be covered	Video Review	Due Date
Week 10  March 17–21	<i>Practice Lab</i>			Poster Assignment due: <b>March 21, 1997 at 0900</b>
Week 11  March 24–28	Intravenous tubing priming and tubing change  <b>Students will come to lab ready to demonstrate priming intravenous tubing and changing intravenous tubing.</b>	<b>Required reading;</b> Any Recommended Fundamentals Nursing Textbook or Skills Textbook.  <b>Equipment will be distributed before this class.</b>	<b>View before class:</b> BCIT 1996 Priming intravenous tubing and changing the tubing.	

1997 Week of	Material Covered	Reading required for class. Focus reading on material to be covered	Video Review	Due Date
Week 12  March 31–April 4	<p>Intravenous therapy- managing complications</p> <ul style="list-style-type: none"> <li>• kinked tubing</li> <li>• positional intravenous</li> <li>• drip chamber flooding</li> <li>• leaking intravenous site</li> <li>• air bubbles in tubing</li> <li>• stopped intravenous infusion</li> <li>• pain</li> <li>• infiltration</li> <li>• phlebitis</li> <li>• circulatory overload</li> <li>• documentation</li> </ul> <p>Electronic infusion devices</p> <ul style="list-style-type: none"> <li>• how to use an electronic infusion device</li> <li>• documentation</li> </ul> <p><i>Practice in class</i></p>	<p><b>Required reading:</b> Any Recommended Fundamental Nursing Textbook of Skills Textbook.</p>	<p><b>View in class:</b> BCIT 1996 intravenous trouble shooting</p>	

1997 Week of	Material Covered	Reading required for class. Focus reading on material to be covered	Video Review	Due Date
Week 13  April 7-11	<p>Medications for intravenous use:</p> <ul style="list-style-type: none"> <li>• assessment considerations</li> <li>• safety considerations</li> <li>• equipment required</li> <li>• factors to consider related to incompatibility</li> <li>• method of preparing an intravenous medication in a main bag</li> <li>• method of preparing an intravenous medication in a minibag.</li> <li>• use of a reconstitution device</li> <li>• adding minibag to continuous intravenous</li> <li>• documentation</li> <li>• use of electronic infusion device for infusing medication</li> </ul> <p><i>Practice in class</i></p>	<p><b>Required reading:</b> Any of the recommended Fundamentals Nursing Textbooks or Skills Textbook.</p>	<p><b>View in class:</b> Selkirk College- Administration of Intravenous Drug Medications into the main bag.</p> <p>BCIT 1996</p> <ul style="list-style-type: none"> <li>• Reconstitution of medications for minibag using syringe or a reconstitution device</li> <li>• add a line and mini bag to a continuous intravenous</li> </ul>	

1997 Week of	Material Covered	Reading required for class. Focus reading on material to be covered	Video Review	Due Date
Week 14 April 14–18	Ostomy care: <ul style="list-style-type: none"> <li>• type &amp; variety of ostomies</li> <li>• use of appliances</li> <li>• skin care</li> <li>• irrigation</li> <li>• assessment</li> <li>• documentation</li> <li>• patient teaching</li> <li>• referral</li> </ul> Guest lecturer and laboratory practice	<b>Required reading;</b> Any of the recommended Fundamentals Nursing Textbooks or Skills Textbook.		<b>Poster presentation and discussion.</b>
Week 15 April 21–25	<b>Skill testing</b>			
Week 16 April 28–May 2	<b>Skill testing</b>			
Week 17 May 5–9	<b>Exam Week</b>			<b>Multiple Choice Exam</b>