

I. COURSE DESCRIPTION:

This course provides the Registered Nurse/graduate nurse or Registered Practical Nurse with an opportunity to learn the theory and practical skills necessary to perform safe and competent venipuncture and provide intravenous therapy, both peripherally and centrally. The information provided in this course follows the guidelines established by the Canadian Intravenous Nurses Association (CINA)

II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:

Upon successful completion of this course, the student will demonstrate the ability to:

1. Provide an overview of infusion therapy
Potential Elements of the Performance:
 - discuss the history of infusion therapy
 - state the nursing roles and responsibilities in infusion therapy
2. Utilize an evidence-based approach to assessment and monitoring of infusion therapy
Potential Elements of the Performance:
 - explore anatomy and physiology as it applies to infusion therapy
 - discuss fluid and electrolyte balance
 - state the principles of parenteral fluid administration
 - identify potential complications and interventions
 - review the role of the Canadian Intravenous Nurses Association (CINA) in developing evidence based, competency based programs
 - review documentation in relation to the standards developed by the College of Nurses, local policy and procedures
3. Make clinical decisions regarding peripheral infusion therapy
Potential Elements of the Performance:
 - describe the equipment and measures required to safely perform and administer peripheral infusion therapy
 - demonstrate in a lab setting peripheral infusion therapy techniques including:
 - preparation
 - vein selection
 - catheter selection
 - insertion technique
4. Comprehend the clinical decision making process regarding Central Venous Access (CVA)
Potential Elements of the Performance:
 - describe CVA

- discuss the selection of CVA devices and their uses
 - explore the care and maintenance of CVA devices
 - discuss peripherally inserted central catheters (PICC)
 - explore the care and maintenance of a PICC
 - describe potential complications of indwelling central venous catheters and devices
 - demonstrate in a lab setting techniques required to:
 - perform an exit site dressing
 - flush an indwelling central venous catheter and/or device
5. Convey patient-specific therapies for infusion therapy
Potential Elements of the Performance:
- discuss parenteral nutrition
 - explore transfusion therapy
 - state the implications, advantages, disadvantages and hazards of administering pharmacological agents via the intravenous route
 - discuss antineoplastic therapy
 - explore pain management
6. Acknowledge special applications for intravenous therapy
Potential Elements of the Performance:
 discuss intravenous therapy as it pertains to:
 pediatric patients
 older adult patients
 ambulatory infusion
 alternate access e.g. arterial blood gases
 venipuncture for blood sampling

III. TOPICS:

1. overview of infusion therapy
2. assessment and monitoring
3. clinical decision making
4. patient specific therapies
5. special applications of intravenous therapy

IV. REQUIRED RESOURCES/TEXTS/MATERIALS:

Weinstein, Sharon. (2007). *Plumer's Principles & Practice of Intravenous Therapy* (8th ed.). New York: Lippincott, Williams & Wilkins

CNO (2005 – revised) Professional Practice Standard #41007: Medication
<http://www.cno.org/pubs/compendium.html>

CNO (2005 – revised) Professional Practice Standard #41001: Documentation.
<http://www.cno.org/pubs/compendium.html>

Canadian Intravenous Nurses Association website <http://www.cina.ca/>

V. EVALUATION PROCESS/GRADING SYSTEM:

Attendance of all classes, lab demonstration and practice is expected for successful completion of this course

Tests (4)	40% (10% each test)
Lab (attendance & demonstration of skills)	10%
Exam	50%
Total:	100%

The following semester grades will be assigned to students in postsecondary courses:

Grade	<u>Definition</u>	<i>Grade Point Equivalent</i>
A+	90 – 100%	4.00
A	80 – 89%	3.00
B	70 - 79%	2.00
C	60 - 69%	1.00
D	50 – 59%	0.00
F (Fail)	49% and below	
CR (Credit)	Credit for diploma requirements has been awarded.	
S	Satisfactory achievement in field /clinical placement or non-graded subject area.	
U	Unsatisfactory achievement in field/clinical placement or non-graded subject area.	
X	A temporary grade limited to situations with extenuating circumstances giving a	

	student additional time to complete the requirements for a course.
NR	Grade not reported to Registrar's office.
W	Student has withdrawn from the course without academic penalty.

VI. SPECIAL NOTES:

Special Needs:

If you are a student with special needs (e.g. physical limitations, visual impairments, hearing impairments, or learning disabilities), you are encouraged to discuss required accommodations with your professor and/or the Special Needs office. Visit Room E1101 or call Extension 2703 so that support services can be arranged for you.

Retention of Course Outlines:

It is the responsibility of the student to retain all course outlines for possible future use in acquiring advanced standing at other postsecondary institutions.

Plagiarism:

Students should refer to the definition of “academic dishonesty” in *Student Rights and Responsibilities*. Students who engage in “academic dishonesty” will receive an automatic failure for that submission and/or such other penalty, up to and including expulsion from the course/program, as may be decided by the professor/dean. In order to protect students from inadvertent plagiarism, to protect the copyright of the material referenced, and to credit the author of the material, it is the policy of the department to employ a documentation format for referencing source material.

Course Outline Amendments:

The professor reserves the right to change the information contained in this course outline depending on the needs of the learner and the availability of resources.

Substitute course information is available in the Registrar's office.

VII. PRIOR LEARNING ASSESSMENT:

Students who wish to apply for advanced credit in the course should consult the professor. Credit for prior learning will be given upon successful completion of a challenge exam or portfolio.

VIII. DIRECT CREDIT TRANSFERS:

Students who wish to apply for direct credit transfer (advanced standing) should obtain a direct credit transfer form from the Dean's secretary. Students will be required to provide a transcript and course outline related to the course in question.