



**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* (8<sup>th</sup> 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:

<b>Grade</b>	<b><u>Definition</u></b>	<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:

### 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.

### 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.

### Prior Learning Assessment:

Students who wish to apply for advance credit transfer (advanced standing) should obtain an Application for Advance Credit from the program coordinator (or the course coordinator regarding a general education transfer request) or academic assistant. Students will be required to provide an unofficial transcript and course outline related to the course in question. Please refer to the Student Academic Calendar of Events for the deadline date by which application must be made for advance standing.

Credit for prior learning will also be given upon successful completion of a challenge exam or portfolio.

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

### Disability Services:

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

Communication:

The College considers **WebCT/LMS** as the primary channel of communication for each course. Regularly checking this software platform is critical as it will keep you directly connected with faculty and current course information. Success in this course may be directly related to your willingness to take advantage of the **Learning Management System** communication tool.

Plagiarism:

Students should refer to the definition of “academic dishonesty” in *Student Code of Conduct*. A professor/instructor may assign a sanction as defined below, or make recommendations to the Academic Chair for disposition of the matter. The professor/instructor may (i) issue a verbal reprimand, (ii) make an assignment of a lower grade with explanation, (iii) require additional academic assignments and issue a lower grade upon completion to the maximum grade “C”, (iv) make an automatic assignment of a failing grade, (v) recommend to the Chair dismissal from the course with the assignment of a failing grade. 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.

Student Portal:

The Sault College portal allows you to view all your student information in one place. **mysaultcollege** gives you personalized access to online resources seven days a week from your home or school computer. Single log-in access allows you to see your personal and financial information, timetable, grades, records of achievement, unofficial transcript, and outstanding obligations. Announcements, news, the academic calendar of events, class cancellations, your learning management system (LMS), and much more are also accessible through the student portal. Go to <https://my.saultcollege.ca>.

Electronic Devices in the Classroom:

Students who wish to use electronic devices in the classroom will seek permission of the faculty member before proceeding to record instruction. With the exception of issues related to accommodations of disability, the decision to approve or refuse the request is the responsibility of the faculty member. Recorded classroom instruction will be used only for personal use and will not be used for any other purpose. Recorded classroom instruction will be destroyed at the end of the course. To ensure this, the student is required to return all copies of recorded material to the faculty member by the last day of class in the semester. Where the use of an electronic device has been approved, the student agrees that materials recorded are for his/her use only, are not for distribution, and are the sole property of the College.

Attendance:

Sault College is committed to student success. There is a direct correlation between academic performance and class attendance; therefore, for the benefit of all its constituents, all students are encouraged to attend all of their scheduled learning and evaluation sessions. This implies arriving on time and remaining for the duration of the scheduled session.

Tuition Default:

Students who have defaulted on the payment of tuition (tuition has not been paid in full, payments were not deferred or payment plan not honoured) as of the first week of November will be removed from placement and clinical activities. This may result in loss of mandatory hours or incomplete course work. Sault College will not be responsible for incomplete hours or outcomes that are not achieved or any other academic requirement not met as of the result of tuition default. Students are encouraged to communicate with Financial Services with regard to the status of their tuition prior to this deadline to ensure that their financial status does not interfere with academic progress.