

APPLIED ARTS DIVISION
School of Health, Education, and Human Services
Fall, 2019



COURSE OUTLINE

NURS 1301

MATHEMATICAL PRINCIPLES OF MEDICATION ADMINISTRATION

**45 HOURS
3 CREDITS**

PREPARED BY: Sue Starks

DATE: July 29, 2019

APPROVED BY:

DATE:

APPROVED BY ACADEMIC COUNCIL: (DATE)

RENEWED BY ACADEMIC COUNCIL: (DATE)

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MATHEMATICAL PRINCIPLES OF MEDICATION ADMINISTRATION

INSTRUCTOR: Samantha Piper	OFFICE HOURS: by appointment
OFFICE LOCATION: A2708	CLASSROOM:
E-MAIL: spiper@yukoncollege.yk.ca	TIME: Wed 1300-1600
TELEPHONE: 867-668-8845 (HEHS office)	DATES: Sept 4 - Dec 18, 2019

COURSE DESCRIPTION

Numeracy skills in drug dosage calculation are intrinsic to nursing practice. Learners need these skills to progress through their courses, clinical placements, and eventual licensed practical nurse practice. This course initially focuses on foundational mathematical concepts and operations as well as the documents integral to medication administration. The course covers oral and parenteral medication calculations, intravenous drug administration calculations, and calculations for special protocols. Proficiency in this course underpins safe practice.

PREREQUISITES

None

RELATED COURSE REQUIREMENTS

Enrolment in the practical nurse education program or permission of the program coordinator

EQUIVALENCY OR TRANSFERABILITY

See Bow Valley College transferability information at <https://bowvalleycollege.ca/student-resources/academic-services/transfer-credits>

LEARNING OUTCOMES

Upon successful completion of the course, students will be able to:

1. Perform and evaluate dosage calculations for oral, injected, and intravenous medications.
2. Calculate flow rate and infusion time for intravenous drug administration.
3. Apply strategies to read and retrieve information from a range of documents.
4. Use clinical terminology in context.
5. Evaluate calculations and documents by applying critical thinking skills.

COURSE FORMAT

This course will be a total of 45 hours plus a final exam. Classes include but are not limited to: facilitator-led learning, peer-to-peer projects, in class and home exercises.

EVALUATION

Learning Outcomes	Assessment Strategy	Weight
1,2,3,4,5	Learning Assessment 1	20%
1,2,3,4,5,	Learning Assessment 2	30%
1,2,3,4,5	Exam 1	20%
1,2,3,4,5	Final Exam	30%
		100%

Grading will be according to the Bow Valley College letter grade template. An overall minimum final mark for this course must be 64%, letter grade C, grade point value of 2.0 to pass this course.

GRADING SCHEME

GRADE	PERCENTAGE	GRADE POINT	DESCRIPTION
A+	95-100	4.0	Exceptional
A	90-94	4.0	
A-	85-89	3.67	Excellent
B+	80-84	3.33	
B	75-79	3.0	
B-	70-74	2.67	Good
C+	67-69	2.33	
C	64-66	2.0	
C-	60-63	1.67	Satisfactory
D+	57-59	1.33	
D	50-56	1.0	Minimal Pass
F	0-49	0.0	Fail

A Grade Point Average of 2.0 is required for graduation.
 A minimum grade of D / 50% is required to pass this course. However, your program may require a higher grade in this course for you to progress in the program and to graduate. Please refer to your individual Program Content Guide or contact your program coordinator for further details.

REQUIRED TEXTBOOKS AND MATERIALS:

NURS 1301 Course Package is required for this course

ACADEMIC AND STUDENT CONDUCT

Information on academic standing and student rights and responsibilities can be found in the current Academic Regulations that are posted on the Student Services/ Admissions & Registration web page.

PLAGIARISM

Plagiarism is a serious academic offence. Plagiarism occurs when a student submits work for credit that includes the words, ideas, or data of others, without citing the source from which the material is taken. Plagiarism can be the deliberate use of a whole piece of work, but more frequently it occurs when students fail to acknowledge and document

sources from which they have taken material according to an accepted manuscript style (e.g., APA, CSE, MLA, etc.). Students may use sources which are public domain or licensed under Creative Commons; however, academic documentation standards must still be followed. Except with explicit permission of the instructor, resubmitting work which has previously received credit is also considered plagiarism. Students who plagiarize material for assignments will receive a mark of zero (F) on the assignment and may fail the course. Plagiarism may also result in dismissal from a program of study or the College.

YUKON FIRST NATIONS CORE COMPETENCY

Yukon College recognizes that a greater understanding and awareness of Yukon First Nations history, culture and journey towards self-determination will help to build positive relationships among all Yukon citizens. As a result, to graduate from ANY Yukon College program, you will be required to achieve core competency in knowledge of Yukon First Nations. For details, please see www.yukoncollege.yk.ca/yfnccr.

ACADEMIC ACCOMMODATION

Reasonable accommodations are available for students requiring an academic accommodation to fully participate in this class. These accommodations are available for students with a documented disability, chronic condition or any other grounds specified in section 8.0 of the Yukon College Academic Regulations (available on the Yukon College website). It is the student's responsibility to seek these accommodations. If a student requires an academic accommodation, he/she should contact the Learning Assistance Centre (LAC): lac@yukoncollege.yk.ca.

TOPIC OUTLINE

Review of Fundamental Math Skills
Medical Document Use
Medical Equipment and Supplies