



Welcome to Medication Math 100

Basic Course Information

Semester:	Fall 2024	Instructor Name:	Erika Rodriguez RN, MSN, CNS
Course Title & #:	NURS 100 Medication Mathematics	Email:	Erika.rodriguez@imperial.edu
CRN #:	10527	Webpage (optional):	Imperial Valley College
Classroom:	Face-to-Face	Office #:	Available via Zoom
Class Dates:	October 11- Dec 7	Office Hours:	By Appointment
Class Days:	Friday	Office Phone #:	Nursing Office 760-355-6348
Class Times:	0800-1020	Emergency Contact:	Nursing Office 760-355-6348
Units:	1	Class Format/Modality:	Face-to-Face Room 2131
*****Deadline to Drop WITH "W" November 15 *****			

Course Description

This course focuses on those components of safe medication calculation and administration. The emphasis is on accuracy of calculation and the critical thinking evolved in client safety. This is an intense class on med math calculations that is required of all nursing majors. Clinical application is integrated into the clinical nursing courses. (CSU)

Course Prerequisite(s) and/or Corequisite(s)

None

Student Learning Outcomes

Upon course completion, the successful student will have acquired new skills as demonstrated by being able to:

1. Demonstrate understanding by passing a comprehensive final exam on dosage calculations at 78% or higher and overall grade for course of 78% or higher. (ILO2, ILO4)

Course Objectives

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

1. Calculate basic mathematic problems including addition, subtraction, multiplication & division of fractions & decimals.
2. Convert metric, apothecary, and household measures accurately.
3. Solve dosage problems using dimensional analysis.
4. Calculate adult & pediatric dosages.
5. Calculate intravenous flow rates.
6. Interpret drug orders and labels relevant to the safe administration of drugs,
7. Discuss the "Seven rights" of clients relative to administration of medications.
8. Describe the routes of administration, po, IM, IV



Textbooks & Other Resources or Links

Sandra Luz Martinez de Castillo, Maryanne Werner-McCullough. 2019. *Dosage Calc 360° 4-year access*. F. A. Davis. ISBN: 978-0-8036-7713-5.

To purchase the Dosage Calculation Program you will need to access your first canvas assignment and from CANVAS you will be directed FA Davis.

Course Requirements and Instructional Methods

NURS100 is offered as an in person class.

Classroom work:

- Weekly modules and assignments open on Sunday 1200am and are due on Friday @11pm
- The student is expected to log into the class at least 3-4 times per week.
- Tests: There will be exams covering the topics reviewed online in the weekly modules. They will be taken in Canvas with HonorLock.

THERE ARE NO MAKE-UP EXAMS REGARDLESS OF EXCUSE

Assignments:

There will be homework assignments from the required Dosage Calc 360 (FA Davis) online site. These are part of your grade. These assignments will be outlines in Canvas. The assignment will cover the topics discussed in modules and on Dosage Calc 360 .

A student shall treat this course like a job.

There will be:

- ⇒ Homework: Chapter assignments in Dosage Calc 360 (points are assigned by the activity). I use the Module Assessment grades in Dosage Calc 360 to calculate your score for each assignment in Canvas, you must get 85% or above on the module assessment to get full credit (10-20 points each)
- ⇒ Weekly discussions (10 points each)
- ⇒ Weekly Exams (25-35 points each)
- ⇒ 1 Final Exam (100 points)

Classroom work:

The student is expected to log into the class at least 3-4 times per week.

Tests: There will be exams covering the topics reviewed online in the weekly modules. They will be taken in Canvas. HonorLock App will be used during the EXAMS.

THERE ARE NO MAKE-UP EXAMS REGARDLESS OF EXCUSE

Late work will be accepted with a 10% deduction per day, until Sunday of the following week. After Monday late work will not be accepted.

Honorlock will proctor your exams this semester. Honorlock is an online proctoring service that allows you to take your exam from the comfort of your home. You DO NOT need to create an account or schedule an appointment in advance. Honorlock is available 24/7, and all that is required is a computer, a working webcam/microphone, your ID, and a stable internet connection.

To get started, you will need Google Chrome and download [the Honorlock Chrome Extension \(Links to an external site.\)](#).



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When you are ready to complete your assessment, log into Canvas, go to your course, and click on your exam. Clicking "Launch Proctoring" will begin the Honorlock authentication process, where you will take a picture of yourself, show your ID, and complete a scan of your room. Honorlock will be recording your exam session through your webcam, microphone, and recording your screen. Honorlock also has an integrity algorithm that can detect search-engine use, so please do not attempt to search for answers, even if it's on a secondary device.

Honorlock support is available 24/7/365. If you encounter any issues, you may contact them through live chat on the [support page \(Links to an external site.\)](#) or within the exam itself. Some guides you should review are Honorlock MSRs (Links to an external site.), Student FAQ (Links to an external site.), [Honorlock Knowledge Base \(Links to an external site.\)](#), and [How to Use Honorlock](#)

Course Grading Based on Course Objectives

Course Grading Based on Course Objectives:

This is a nursing course therefore the grading is per the nursing department grading scales.

A = 93-100%

B = 84-92%

C = 78-83%

F = Below 78%

Student must pass the FINAL EXAM to pass the course. The grading for the course uses nursing criteria.

Academic Honesty (Artificial Intelligence -AI)

IVC values critical thinking and communication skills and considers academic integrity essential to learning. Using AI tools as a replacement for your own thinking, writing, or quantitative reasoning goes against both our mission and academic honesty policy and will be considered academic dishonesty, or plagiarism unless you have been instructed to do so by your instructor. In case of any uncertainty regarding the ethical use of AI tools, students are encouraged to reach out to their instructors for clarification.

Attendance and Course Policies

- **A student who fails to attend the first meeting of a class or does not complete the first mandatory activity of an online class will be dropped by the instructor as of the first official meeting of that class.** Should readmission be desired, the student's status will be the same as that of any other student who desires to add a class. It is the student's responsibility to drop or officially withdraw from the class. See General Catalog for details.
- Regular attendance in all classes is expected of all students. Student whose continuous, unexcused absences exceed the number of hours the class is scheduled to meet per week may be dropped. For online courses, students who fail to complete required activities for two consecutive weeks may be considered to have excessive absences and may be dropped.
- Absences attributed to the representation of the college at officially approved events (conferences, contests, and field trips) will be counted as 'excused' absences.



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Course Policies

• What is netiquette?

- Netiquette is internet manners, online etiquette, and digital etiquette all rolled into one word. Basically, netiquette is a set of rules for behaving properly online.
- Students are to comply with the following rules of netiquette:
 - (1) identify yourself,
 - (2) include a subject line,
 - (3) avoid sarcasm,
 - (4) respect others' opinions and privacy,
 - (5) acknowledge and return messages promptly,
 - (6) copy with caution,
 - (7) do not spam or junk mail,
 - (8) be concise,
 - (9) use appropriate language,
 - (10) use appropriate emoticons (emotional icons) to help convey meaning, and
 - (11) use appropriate intensifiers to help convey meaning [do not use ALL CAPS or multiple exclamation marks (!!!!)].

Academic honesty

Academic honesty in the advancement of knowledge requires that all students and instructors respect the integrity of one another's work and recognize the important of acknowledging and safeguarding intellectual property.

There are many different forms of academic dishonesty. The following kinds of honesty violations and their definitions are not meant to be exhaustive. Rather, they are intended to serve as examples of unacceptable academic conduct.

o Plagiarism is taking and presenting as one's own the writings or ideas of others, without citing the source. You should understand the concept of plagiarism and keep it in mind when taking exams and preparing written materials. If you do not understand how to "cite a source" correctly, you must ask for help.

o Cheating is defined as fraud, deceit, or dishonesty in an academic assignment, or using or attempting to use materials, or assisting others in using materials that are prohibited or inappropriate in the context of the academic assignment in question.

Anyone caught cheating or plagiarizing will receive a zero (0) on the exam or assignment, and the instructor may report the incident to the Campus Disciplinary Officer, who may place related documentation in a file. Repeated acts of cheating may result in an F in the course and/or disciplinary action. Please refer to the General Catalog for more information on academic dishonesty or other misconduct. Acts of cheating include, but are not limited to, the following: (a) plagiarism; (b) copying or attempting to copy from others during an examination or on an assignment; (c) communicating test information with another person during an examination; (d) allowing others to do an assignment or portion of an assignment; (e) using a commercial term paper service.

How do I show academic honesty and integrity in an online "classroom"?

⇒ KEEP YOUR PASSWORDS CONFIDENTIAL.

o You have a unique password to access online software like Canvas. Never allow someone else to login to your account.

⇒ COMPLETE YOUR OWN COURSEWORK.

o When you register for an online class and log-in to Canvas, you do so with the understanding that you will produce your own work, take your own exams, and will do so without the assistance of others (unless directed by the instructor).

Examples of Academic Dishonesty that can occur in an online environment:



- Copying from others on a quiz, test, examination, or assignment;
- Allowing someone else to copy your answers on a quiz, test, exam, or assignment;
- Having someone else take an exam or quiz for you;
- Conferring with others during a test or quiz (if the instructor didn't explicitly say it was a group project, then he/she expects you to do the work without conferring with others);
- Buying or using a term paper or research paper from an internet source or other company or taking any work of another, even with permission, and presenting the work as your own;
- Excessive revising or editing by others that substantially alters your final work;
- Sharing information that allows other students an advantage on an exam (such as telling a peer what to expect on a make-up exam or prepping a student for a test in another section of the same class);
- Taking and using the words, work, or ideas of others and presenting any of these as your own work is plagiarism. This applies to all work generated by another, whether it be oral, written, or artistic work. Plagiarism may either be deliberate or unintentional.

CIVILITY

- Civility is treating others and ourselves with respect, dignity and care. Civility is evident when we are sensitive to the impact that our communications, and behaviors have on others, and when we acknowledge each other's self-worth and unique contributions to the community as a whole. Incivility includes any and all forms of disrespect, behavior misconduct or disregard for instruction, the instructor or a fellow student. Students are expected to adhere to the standards of Student Conduct and the regulations adopted by the college. behavior misconduct. Students will treat faculty and other students with respect. Students are expected to promote self-accountability for their actions and foster respectful and professional conduct in all academic interactions. Students should report any form of harassment, disrespect or threatening action. Violations are subject to student disciplinary actions, including but not limited to the removal, suspension or expulsion of a student. Education Code Section 76034, IVC Code of Student Conduct.

Other Course Information

Nursing 100: Medication Math is a nursing course and therefore nursing grading criteria is applied to this course.

IVC Student Resources

IVC wants you to be successful in all aspects of your education. For help, resources, services, and an explanation of policies, visit <http://www.imperial.edu/studentresources> or click the heart icon in Canvas.

Anticipated Class Schedule/Calendar

****** Tentative, subject to change without prior notice******

Week & Date	Activity, Assignment, Topic	Pages/Test Due Dates
Week 1 10/18/2024	Review and complete Module 0 ❖ Read & Understand Syllabus ❖ Read & Understand Getting Started Module and Course Policies ❖ Purchase, Enroll and learn the Dosage Calc 360 online program	Canvas Dosage Calc 360 Online First assignment will be posted online by 10/21/24



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<p>Week 2 10/25/24</p>	<p>Complete Module 2/Week 2</p> <ul style="list-style-type: none"> ❖ Read and complete online assignments in Dosage 360 for Safety in Medication Administration, Systems of Measurement & Dimensional Analysis ❖ Review the PowerPoints for Safety in Medication Administration, Systems of Measurement & Dimensional Analysis 	<ul style="list-style-type: none"> ❖ Complete Week 2 exam in Dosage Calc 360
<p>Week 3 11/1/24</p>	<p>Complete Module 3/Week 3</p> <ul style="list-style-type: none"> ❖ Read and complete online assignments in Dosage 360 for Calculating Oral Medication Doses & ❖ Review the PowerPoints for Calculating Oral Medication Doses & ❖ Complete Week 3 Discussion Post in Canvas 	<ul style="list-style-type: none"> ❖ Complete Week 3 exam in Dosage Calc 360
<p>Week 4 11/8/24</p>	<p>Complete Module 4/Week 4</p> <ul style="list-style-type: none"> ❖ Read and complete online assignments in Dosage 360 for Calculating Parenteral Medication Dosages & Preparing Powdered Parenteral Medication ❖ Review the PowerPoints for Calculating Parenteral Medication Dosages & Preparing Powdered Parenteral Medication 	<ul style="list-style-type: none"> ❖ Complete Week 4 exam in Dosage Calc 360
<p>Week 5 11/15/24</p>	<p>Complete Module 5/Week 5</p> <ul style="list-style-type: none"> ❖ Read and complete online assignments in Dosage 360 for Calculating for IV medications and Infusions & Administering Direct IV Medications ❖ Review the PowerPoints for Calculating for IV medications and Infusions & Administering Direct IV Medications ❖ Complete Week 5 Discussion Post in Canvas 	<ul style="list-style-type: none"> ❖ Complete Week 5 exam in Dosage Calc 360
<p>Week 6 11/22/24 Meet in 2131</p>	<p>Complete Module 6/Week 6</p> <ul style="list-style-type: none"> ❖ Read and complete online assignments in Dosage 360 for Verifying Safe Dose ❖ Review the PowerPoints for Verifying Safe Dose ❖ Complete Week 6 Discussion Post in Canvas 	<ul style="list-style-type: none"> ❖ Complete Week 6 exam in Dosage Calc 360
<p>Week 7 11/29/24</p>	<p>Complete Module 7/Week 7</p> <ul style="list-style-type: none"> ❖ Read and complete online assignments in Dosage 360 for Calculating Intake and Output & Calculating for special Populations 	<ul style="list-style-type: none"> ❖ Complete Week 7 exam in Dosage Calc 360



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(Thanksgiving Break)	❖ Review the PowerPoints for Calculating Intake and Output & Calculating for special Populations	
Week 8 12/6/24	Take Final EXAM in Dosage Calc 360 ❖ Must score at least a 78% per nursing standards Complete Anonymous Student Survey	

*****Subject to change without prior notice*****