

### Basic Course Information

Semester:	<b>SPR 2026</b>	Instructor Name:	<b>Teresa Santos MSN, RN, CMSRN, CNE, PHN</b>
Course Title & #:	<b>NURS 100 - Medication Mathematics</b>	Email:	<b>teresa.santos@imperial.edu</b>
CRN #:	20389	Webpage (optional):	
Classroom:	Asynchronous Online	Office #:	<b>2103</b>
Class Dates:	2/17/26- 4/18/26	Office Hours:	<b>M-Th 1300-1400 Pronto</b>
Class Days:	ONLINE	Office Phone #:	<b>760-355-6345</b>
Class Times:	ONLINE	Emergency Contact:	<b>TBA</b>
Units:	1	Class Format:	Online

### 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 are required of all nursing majors. Clinical application is integrated into the clinical nursing courses. (CSU)

### Student Learning Outcomes

Upon completion of this class the student will be able to: 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) (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

e-Textbook is required for this course

Dosage Calc 360 4-year access. Sandra Luz Martinez de Castillo, Maryanne Werner-McCulloug. FA Davis 2023

**ISBN-13: 978-1-7196-4647-5 (3<sup>rd</sup> edition)**

**The correct edition must be purchased in order to access course content.**

1. [Watch Dosage Calc 360 Student Orientation Video](#)
2. Create FA Davis account
3. Access Dosage Calc 360
4. Join course with CLASS ID (found in Canvas once registered IVC course)



## Course Requirements and Instructional Methods

During this session:

- All Dosage Calc 360 modules are open throughout the semester. All assignments and assessments have due dates assigned in the DosageCalc 360 platform. No late work is accepted.
- The student is expected to attend and participate in class.
- Tests: There will be assessments covering the topics reviewed in the weekly modules. **EXAMS will be taken in Dosage Calc 360 in classroom.** THERE ARE NO MAKE-UP EXAMS; if a need is identified please communicate with your professor as soon as possible. Assignments: **There will be homework assignments from the required Dosage Calc 360 (FA Davis) online site. The assignments are not part of your grade; the assessments are part of your grade.** These assignments will be outlined in Canvas. The assignment will cover the topics discussed in modules and on Dosage Calc 360. There will be:
- Homework: Chapter assignments in Dosage Calc 360 (participation)
- DosageCalc 360 Post-Assessments (10 points each) - unlimited attempts until posted due date
- 1 Midterm exam (50 points)- one attempt, 1 Final Exam (50 points )- one attempt

## 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 passing grade is 78%**

A = 93-100%

B = 84-92%

C = 78-83%

F = Below 78%

## Course Policies

**ATTENDANCE** • A student who fails to attend the first meeting of a class or does not complete the first mandatory activity will be dropped by the instructor as of the first official meeting of that class. Special circumstances can be contemplated as long as you reach out to your professor with anticipation or as soon as the need is identified. 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. A 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. • If a student leaves the class early, or after the break without notifying the instructor, this will constitute an absent equal to the number of hours absent that day. • Absences attributed to the representation of the college at officially approved events (conferences, contests, and field trips) will be counted as 'excused' absences. All exams are to be completed in-person only; fail to be present in class the score will not be accepted and the student must re-take the exam.

### CLASSROOM ETIQUETTE

- Electronic Devices: Cell phones and electronic devices must be turned off and put away during class, including online class, unless otherwise directed by the instructor. Electronic watches that can access internet are not allowed in class during examinations.

- Food is prohibited in all classrooms/online classroom. Drinks and Water bottles with lids/caps are the only exception.
- Disruptive Students: Students who interfere or disrupt a class may be dismissed from class and meet with the Campus Disciplinary Officer before returning to continue with coursework. Disciplinary procedures will be followed as outlined in the General Catalog.
- Children in the classroom: Due to college rules and state laws, only students enrolled in the class may attend; children are not allowed in the classroom, including online/zoom classes. Please keep background noise low or mute when attending online zoom classes. 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.
- Plagiarism is taking and presenting 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.

## Other Course Information

### 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.

## 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. • Disabled Student Programs and Services (DSP&S) office is in Building 2100, telephone 760-355-6313. • Student Health Center. A Student Health Nurse is available on campus. Make appointment online or contact 760-355-6128

## Anticipated Class Schedule/Calendar

Date or Week	Activity, Assignment, and/or Topic	Pages/ Due Dates/Tests
Week 1	<ul style="list-style-type: none"> <li>• Syllabus</li> <li>• Class Overview <ul style="list-style-type: none"> <li>o Canvas</li> <li>o FA Davis Dosage Calc 360 LMS</li> </ul> </li> </ul>	Dosage Calc 360 Online CANVAS

Date or Week	Activity, Assignment, and/or Topic	Pages/ Due Dates/Tests
	<ul style="list-style-type: none"> <li>• <b>Purchase required E-TEXT</b> <b>Ensure the correct edition</b> <b>Third (3<sup>rd</sup>) Edition</b></li> <li>• <a href="#">Create Dosage Calc 360 Account</a> <ul style="list-style-type: none"> <li>o Join class</li> </ul> <b>Class ID found in Canvas once registered for IVC course</b> </li> <li>• M2 Safety in Medication Administration</li> <li>• M3 Systems of Measurement</li> </ul>	M2 & M3 module assignments
Week 2	<ul style="list-style-type: none"> <li>• M6 - Dimensional Analysis</li> <li>• M8 - Calculating Oral Medication Doses</li> <li>• M9 - Syringes and Needles</li> </ul>	Dosage Calc 360 Online  M6, M8, M9 module assignments
Week 3	<ul style="list-style-type: none"> <li>• M10 - Calculating Parenteral Medication Dosages</li> </ul>	Dosage Calc 360 Online  M10 module assignments
Date or Week	Activity, Assignment, and/or Topic	Pages/ Due Dates/Tests
Week 4	<b>Mid Term Exam</b>	
Week 5	<ul style="list-style-type: none"> <li>• M13 - Calculating for IV Medications and Infusions</li> <li>• M15 - Verifying Safe Dose</li> </ul>	Dosage Calc 360 Online  M13 & M15 Module assignments
Week 6	<ul style="list-style-type: none"> <li>• M17 - Calculating Intake and Output</li> <li>• M18 - Calculating for Special Populations</li> </ul>	Dosage Calc 360 Online  M17 & M18 Module assignments
Date or Week	Activity, Assignment, and/or Topic	Pages/ Due Dates/Tests

Week 7	<ul style="list-style-type: none"> <li>Study and Practice for Final Exam</li> </ul>	Dosage Calc 360 Online
Week 8	<b>Final Exam</b>	

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