

Basic Course Information

Semester:	Fall 2014	Instructor Name:	Rebecca Agundez RN BSN
Course Title & #:	Nursing 100: Medication Math	Email:	Rebecca.agundez@imperial.edu
CRN #:	10787	Webpage (optional):	
Classroom:	2139	Office #:	2158
Class Dates:	10/15/14 – 12/10/14	Office Hours:	Mon – Wed 8 am – 12 pm
Class Days:	Wednesdays	Office Phone #:	760-355-6530
Class Times:	6:30 – 8:35 pm	Emergency Contact:	Nursing Office 760- 355-6348
Units:	1		

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)

Student Learning Outcomes

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

1. Calculate the flow rate of a simple primary IV line in mL/hr or gtts/min as measured by one (1) randomly identified question on the final exam with a class average for the question at 92% or better. (ILO2, ILO4)
2. Pass a comprehensive final exam on dosage calculations at 76% including critical care and pediatric problems. (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 "five rights" of clients relative to administration of medications.
8. Describe the routes of administration identifying the appropriate landmarks for each site.

Textbooks & Other Resources or Links

Required: CD/Book: Calculating drug dosages: An interactive approach to Learning Nursing Math, 2nd Edition by Sandra Luz Martinez de Castillo RN, MA, EdD 2010 F.A.Davis Company
Recommended: Dimensional Analysis for Meds, 4th Edition by Anna M. Curren, MA, RN 2010 Delmar Cengage Learning

Course Requirements and Instructional Methods

Out-of-class: Calculate assigned problems and include documentation of all steps taken. Reading and Writing: Complete assigned reading on safety and be able to discuss in class or write a one page paper on the risks in healthcare medication administration.

Out of Class Assignments: The Department of Education policy states that one (1) credit hour is the amount of student work that reasonably approximates not less than one hour of class time and two (2) hours of out-of-class time per week over the span of a semester. WASC has adopted a similar requirement.

Course Grading Based on Course Objectives

Students must maintain a "C" average grade as determined by the scale below:

- A= 92- 100%
- B= 83 – 91%
- C= 75 – 82%
- D= 68 – 74%
- F= Below 68%

No makeup exams will be given. Grades will not be rounded. There are no extra credit assignments.

Attendance

If you are absent more than 2 hours, you will be dropped from this class.

- 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. 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.
- Absences attributed to the representation of the college at officially approved events (conferences, contests, and field trips) will be counted as 'excused' absences.

Classroom Etiquette

- **Electronic Devices:** Cell phones and electronic devices must be turned off and put away during class, unless otherwise directed by the instructor.
- **Food and Drink** are prohibited in all classrooms. Water bottles with lids/caps are the only exception. Additional restrictions will apply in labs. Please comply as directed by the instructor.
- **Disruptive Students:** Students who disrupt or interfere with a class may be sent out of the room and told to 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, no one who is not enrolled in the class may attend, including children.

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 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.
- **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.

Additional Student Services

[Suggested Language.]

Imperial Valley College offers various services in support of student success. The following are some of the services available for students. Please speak to your instructor about additional services which may be available.

- **Blackboard Support Site.** The Blackboard Support Site provides a variety of support channels available to students 24 hours per day.

- [Learning Services](#). There are several learning labs on campus to assist students through the use of computers and tutors. Please consult your [Campus Map](#) for the [Math Lab](#); [Reading, Writing & Language Labs](#); and the [Study Skills Center](#).
- [Library Services](#). There is more to our library than just books. You have access to tutors in the [Study Skills Center](#), study rooms for small groups, and online access to a wealth of resources.

Disabled Student Programs and Services (DSPS)

Any student with a documented disability who may need educational accommodations should notify the instructor or the [Disabled Student Programs and Services](#) (DSP&S) office as soon as possible. The DSP&S office is located in Building 2100, telephone 760-355-6313. Please contact them if you feel you need to be evaluated for educational accommodations.

Student Counseling and Health Services

Students have counseling and health services available, provided by the pre-paid Student Health Fee.

- [Student Health Center](#). A Student Health Nurse is available on campus. In addition, Pioneers Memorial Healthcare District and El Centro Regional Center provide basic health services for students, such as first aid and care for minor illnesses. Contact the IVC [Student Health Center](#) at 760-355-6310 in Room 2109 for more information.
- [Mental Health Counseling Services](#). Short-term individual, couples, family, and group therapy are provided to currently enrolled students. Contact the IVC [Mental Health Counseling Services](#) at 760-355-6196 in Room 2109 for more information.

Student Rights and Responsibilities

Students have the right to experience a positive learning environment and to due process of law. For more information regarding student rights and responsibilities, please refer to the IVC [General Catalog](#).

Information Literacy

Imperial Valley College is dedicated to helping students skillfully discover, evaluate, and use information from all sources. The IVC [Library Department](#) provides numerous [Information Literacy Tutorials](#) to assist students in this endeavor.

Anticipated Class Schedule/Calendar

Date or Week	Activity, Assignment, and/or Topic	Pages/ Due Dates/Tests
Week 1 Oct 15	Syllabus & Introduction Basic Math Review: Fractions, Decimals and Roman Numerals	CD: Basic Math Review Module, Review and Tests
Week 2 Oct 22	Dimensional Analysis Metric, Household and Apothecary Systems of Measurement. Temperature conversion and military time.	CD: Methods of Calculation , Dimensional Analysis Problems Systems of Measurement Module, Review and Tests
Week 3 Oct 29	Oral medications Parental Dosages: IVP, IM, SC, Landmarks for these sites Dosages in units Interpreting drug labels	CD: Reading medication Labels, Reconstitution of Powdered medications Module, Review and Tests
Week 4 Nov 5	IV Fluids: Using an IV Pump, Blood administration, Special IV's: Heparin and Insulin drips	CD: Administration of Oral Medication, Syringes and needles, administration of Parental Medications Modules, Review and Tests
Week 5 Nov 12	IV's: Primary, Piggy back, Blood and Specialty	CD: IV Calculations Module, Review and Tests
Week 6 Nov 19	Pediatric Dosages	CD: Pediatric Calculations Module, Review and Tests
Week 7 Nov 26	No Class, enjoy your Thanksgiving break!	
Week 8 Dec 3	Critical Care IV Drips Safety in medication Administration (5 rights) Interpretation of Physician orders Review for Final	
Week 9 Dec 10	Final Exam	

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