

Basic Course Information

Semester:	SPRING 2020	Instructor Name:	Julie Kunath MS APRN
Course Title & #:	MED MATH NURS100	Email:	Julie.kunath@imperial.edu
CRN #:	21136	Webpage (optional):	
Classroom:	2139	Office #:	2130
Class Dates:	April 24 - June 12, 2020	Office Hours:	Post on Office Door
Class Days:	FRIDAY	Office Phone #:	(760) 355 - 6422
Class Times:	0800 - 1005 am	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.

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

This course is a prerequisite for the nursing program.

Course Recommended Preparation

In NURS100, it is required to apply mathematical principles to the calculation of drug dosages. This includes addition, subtraction, multiplication, and division of decimals and fractions. A thorough knowledge of the metric system with emphasis on the conversions is required. Dimensional analysis as it applies to calculating drug dosages is included.

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 gtt/min as measured by one (1) randomly identified question on the final exam with a class average for the question at 92% or better.
2. Pass a comprehensive final exam on dosage calculations at 78% including critical care and pediatric problems.

Course Objectives

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

1. Calculate basic mathematic problems including addition, subtraction, multiplication, and division of fractions and decimals.
2. Convert metric, apothecary and household measures accurately.
3. Solve dosage problems using dimensional analysis.
4. Calculate adult and pediatric dosages.
5. Calculate intravenous flow rates.
6. Interpret drug orders and labels relevant to the safe administration of drugs.
7. Discuss the “six 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

Medical Dosage Calculations Plus My Nursing Lab with Pearson eText -- Access Card Package, 11/e
ISBN 9780134480602 (IVC bookstore listed pricing= USED \$139.50; NEW \$185.75)

Course Requirements and Instructional Methods

Classroom work:

The student is expected to bring required materials to class. This may include include assignments if requested to be turned in on paper. May bring personal calculator for in-class practice calculations.

Tests:

There will be exams covering the topics reviewed in class and online. They may consist of in-class exams, online exams with Nursing Lab and/or exams taken in Canvas. During in-class exams, calculators will not be permitted. Due to the condensed and shortened length of this course -

THERE ARE NO MAKE-UP EXAMS REGARDLESS OF EXCUSE.

Assignments:

There will be homework assignments from the required Dosage Calculations online site, on Canvas site, and/or from the text book on paper. The results of the assignments will be printed out and turned into the instructor by the date that they are due if requested. These assignments will be outlined in Canvas. The assignments will cover the topics discussed in class. **NO LATE WORK WILL BE ACCEPTED.**

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

This is a nursing course, therefore the grading is per the nursing department grading scales. Students must maintain a “C” average grade as determined by the scale below:

A = 93-100%

B = 85-92%

C = 78-84%

F = Below 78%

Attendance

- **A student who fails to attend the first meeting of 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. Attendance is required for all seven (7) sessions of this course and the Final Exam to be successful. Any tardiness or attendance issues must be brought up to the instructor prior to the class effected and may or may not be approved. Excuses for tardiness will be addressed as needed and will be dealt with at the discretion of the instructor.
- 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. Smart watches and similar devices are not permitted during quizzes or tests.
- **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, only students enrolled in the class may attend; children are not allowed.

Online Netiquette

- 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 (!!!)].
- **Both the course name and student name who is initiating the communication must be included in any emails, text messages, or any other communication regarding the course with the instructor.**

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.

Revision Date: 02 16 2020

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

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.

- **CANVAS LMS.** Canvas is Imperial Valley College's main Learning Management System. To log onto Canvas, use this link: [Canvas Student Login](#). The [Canvas Student Guides Site](#) provides a variety of support available to students 24 hours per day. Additionally, a 24/7 Canvas Support Hotline is available for students to use: 877-893-9853.
- **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 provide basic health services for students, such as first aid and care

Revision Date: 02 16 2020

for minor illnesses. Contact the IVC [Student Health Center](#) at 760-355-6128 in Room 1536 for more information.

- **Mental Health Counseling Services.** Short-term individual, couples, family and group counseling services are available for currently enrolled students. Services are provided in a confidential, supportive, and culturally sensitive environment. Please contact the IVC Mental Health Counseling Services at 760-355-6310 or in the building 1536 for appointments or more information..

Veteran's Center

The mission of the [IVC Military and Veteran Success Center](#) is to provide a holistic approach to serving military/veteran students on three key areas: 1) Academics, 2) Health and Wellness, and 3) Camaraderie; to serve as a central hub that connects military/veteran students, as well as their families, to campus and community resources. Their goal is to ensure a seamless transition from military to civilian life. The Center is located in Building 600 (Office 624), telephone 760-355-6141.

Extended Opportunity Program and Services (EOPS)

The Extended Opportunity Program and Services (EOPS) offers services such as priority registration, personal/academic counseling, tutoring, book vouchers, and community referrals to qualifying low-income students. EOPS is composed of a group of professionals ready to assist you with the resolution of both academic and personal issues. Our staff is set up to understand the problems of our culturally diverse population and strives to meet student needs that are as diverse as our student population.

Also under the umbrella of EOPS our CARE (Cooperative Agency Resources for Education) Program for single parents is specifically designed to provide support services and assist with the resolution of issues that are particular to this population. Students that are single parents receiving TANF/Cash Aid assistance may qualify for our CARE program, for additional information on CARE please contact Lourdes Mercado, 760-355- 6448, lourdes.mercado@imperial.edu.

EOPS provides additional support and services that may identify with one of the following experiences:

- Current and former foster youth students that were in the foster care system at any point in their lives
- Students experiencing homelessness
- Formerly incarcerated students

To apply for EOPS and for additional information on EOPS services, please contact Alexis Ayala, 760-355-5713, alexis.ayala@imperial.edu.

Student Equity Program

- The Student Equity Program strives to improve Imperial Valley College's success outcomes, particularly for students who have been historically underrepresented and underserved. The college identifies strategies to monitor and address equity issues, making efforts to mitigate any disproportionate impact on student success and achievement. Our institutional data provides insight surrounding student populations who historically, are not fully represented. Student

Revision Date: 02 16 2020

Equity addresses disparities and/or disproportionate impact in student success across disaggregated student equity groups including gender, ethnicity, disability status, financial need, Veterans, foster youth, homelessness, and formerly incarcerated students. The Student Equity Program provides direct supportive services to empower students experiencing insecurities related to food, housing, transportation, textbooks, and shower access. We recognize that students who struggle meeting their basic needs are also at an academic and economic disadvantage, creating barriers to academic success and wellness. We strive to remove barriers that affect IVC students' access to education, degree and certificate completion, successful completion of developmental math and English courses, and the ability to transfer to a university. Contact: 760.355.5736 or 760.355.5733 Building 100.

- The Student Equity Program also houses IVC's Homeless Liaison, who provides direct services, campus, and community referrals to students experiencing homelessness as defined by the McKinney-Vento Act. Contact: 760.355.5736 Building 100.

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

Date or Week	Activity, Assignment, and/or Topic	Pages/ Due Dates/Tests
Week 1 April 24, 2020	Syllabus & Introduction Ch. 1: Review of Arithmetic for dosage Calculations Ch. 2: Safe and Accurate Medication Administration	Pre-Test due Prior to class. Read Ch. 1 & 2 before class. MyLabs HW online
Week 2 May 1, 2020	Ch. 3: Dimensional Analysis Ch. 4: The Household and Metric Systems	Quiz Read Ch. 3 & 4 MyLabs HW online
Week 3 May 8, 2020	Ch. 5: Converting from One System of Measurement to Another Ch. 6: Oral Medication	EXAM 1(MyLab) on Ch. 2 - 4: due 5/7 before 2200 Read Ch. 5 & 6
Week 4 May 15, 2020	Ch. 7: Syringes Ch. 8: Solutions Ch. 9: Parenteral Medications	Quiz Read Ch. 7, 8, & 9 MyLabs HW online
Week 5 May 22, 2020	Ch. 9: Parenteral Medications continued Ch. 10: Flow Rates and Durations of Enteral and Intravenous Infusions	EXAM 2(MyLab) on Ch. 5 - 8: due 5/21 before 2200 Read Ch. 10 MyLabs HW online
Week 6 May 29, 2020	Ch. 11: Flow Rates and Dosage Rates for Intravenous Medications Ch. 12: Pediatric Dosages	Quiz Read Ch. 11 & 12 MyLabs HW online
Week 7 June 5, 2020	Ch 12: Pediatric Dosages continued REVIEW In-class practice quiz	EXAM 3(MyLab) on Ch. 9 - 12: due 6/4 before 2200 Review all material
Week 8 June 12, 2020	IN-CLASS: FINAL EXAM	Final Exam in class, on paper, no calculators, up to 50 questions

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