Basic Course Information

Semester:	Spring 2018	Instructor Name:	Daniel G. Ortiz, Jr.
Course Title & #:	VN114: Pharmacology I	Email:	daniel.ortiz@imperial.edu
CRN #:	21153	Webpage (optional):	www.imperial.edu
Classroom:	2135	Office #:	2126
Class Dates:	Feb. 13/Jun. 8, 2018	Office Hours:	By appointment only
Class Days:	Wednesday	Office Phone #:	760-355-6493
Class Times:	1300-1435	Emergency Contact:	Nursing Office Secretary

Last Date to Add: 24 FEB 2018 Deadline to drop WITH "W": 12 MAY 2018

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 involved in client/patient safety. This is an intense class on med math calculations that is required of all RN majors. Clinical application is integrated into the clinical nursing courses.

In NURS100, the student is required to apply mathematical principles to the calculation of drug dosages. This includes addition, subtraction, multiplication & 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.

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

Corequisite courses for first semester VN:

VN 110 - Introduction to Patient Care I

- VN 112 Introduction to Patient Care II
- VN 116 Patient Care management & Critical Thinking

Student Learning Outcomes

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

1. Calculate the flow rate of a simple primary intravenous line in ml/hr or drops/min as measured by one (1) randomly selected question on the final exam with a class average for the measured question at 92% or better.

2. Pass a comprehensive final exam on dosage calculations at 75% including critical care and pediatric problems.

Course Objectives

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 "Six rights" of clients relative to administration of medications.
- 8. Describe the routes of administration.

Unit Outcome Competencies:

The student will practice problems in class, in the Nursing Learning Center and at home to develop proficiency in calculations

Textbooks & Other Resources or Links

REQUIRED

Martinez de Castillo, S., L., Werner-McCullough, Maryanne. (2017). Calculating Drug Dosages A patient-safe approach to nursing and math. Philadelphia, PA: F.A. Davis

RECOMMENDED

- A. Purchase access to: www.DosageCalc.com
- a. The on-line modules provide all materials found in the recommended book, Calculating Drug Dosages.

B. Dimensional Analysis for Meds, 4th Edition Anna M. Curren, MA, RN Copyright© 2010 Delmar Cengage Learning or any Dimensional analysis dosage calculation book. Has to be Dimensional Analysis method

Course Requirements and Instructional Methods

Classroom work:

The student is expected to bring required materials to class. This includes the required study guides to be worked on during class time.

Tests:

There will be exams covering the topics reviewed in class. They will consist of in class exams and/or exams taken on Dosagecalc.com. Note, All on-line content is time stamped and as such, must be submitted accordingly.

THERE ARE NO MAKE-UP EXAMS REGARDLESS OF EXCUSE.

Out of Class Assignments:

NO LATE WORK WILL BE ACCEPTED.

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. 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 per week over the span of a semester. WASC has adopted a similar requirement.

Course Grading Based on Course Objectives

Grading will include home assignments, class participation, group projects, no more than 6 quizzes, Mid-Term exam, and Final exam. A total grade of 78% and passing the final at 78% or above are required to pass this course.

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

A = 93-100%

- B = 85-92%
- C = 78-84%
- D = 68-77%
- F = Below 68% Grades will not be "rounded"

To advance to the next semester, a total grade of 78% or above AND passing the final at 78% or above is required in this course and the co-requisite courses. The student is responsible for dropping (W) the class before the deadline as outlined on registration forms. Failure to pass this class will affect the ability to progress to the next semester. Students failing must make an appointment to speak with the Director of Nursing Education.

* The student is responsible for making an appointment with their instructor any time their grade average drops below 82%.

Attendance

It is the responsibility of each student to attend all class time and to contact the faculty person before the start of class of any need to be excused from class. The class will start as indicated above; any student who is tardy 15 minutes or more will be counted as absent, will not be allowed to take any scheduled or unannounced quizzes, test', or major exams. Absences are limited to the number of hours class meets in one week (One for a 1.50 unit course). A student who reaches the maximum allowable hours of absenteeism may be dropped by the instructor. This class has 17 Instruction days. If you are absent more than 1 day, you need to drop the class. If you no longer plan to attend class it is your responsibility, not the Instructor's, to drop you from the class. Students are strongly encouraged to meet all class sessions as homework and assignments will be provided at the end of lecture.

- 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

I expect each student in this class to respectfully participate. While I enjoy teaching and I hope you have fun in this class, please act professionally and keep other students feelings in mind and refrain from rude, inappropriate behavior and language in class.

- 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.

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 (!!!!)].

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

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 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, <u>alexis.ayala@imperial.edu</u>.

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 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

Date or Week	Activity, Assignment, and/or Topic. Homework as posted in Canvas	Reading
Week 1	Unit 1: Safety in Medication Administration. Chapters 1 & 2	Read Chp 1&2
	Drug Cards	
Week 2	Unit 2: Systems of Measurement. Chapters 3 & 4	Read Chp 3 & 4
	Unit 1 exam	
Week 3	Chapter 7: Dimensional Analysis	Read Chp 7
	Unit 2 exam	
Week 4	Chapter 10: Syringes and Needles	Read Chp 10
Week 5	Unit 4: Chapter 9: Calculating Oral Medication Doses	Read Chp 9
	Skills: Safe syringe exam and Oral Medication Administration	-
Week 6	Completion of Unit 4:	Read Chp 11-13
	Chapter 11: Calculating Parenteral Medication Doses	
	Chapter 12: Preparing Powdered Parenteral Medications	
	Chapter 13: Administration of Insulin	
Week 7	Mid-Term Chapters 1-13	
Week 8	SPRING BREAK, Campus closed April 2-6	
Week 9	Chapter 14: Intravenous Infusion and Infusion Rates	Read Chp 14

Date or Week	Activity, Assignment, and/or Topic. Homework as posted in Canvas	Reading
	Overview of Intravenous Infusion set-up	
Week 10	Chapter 15: Calculating Infusion and Completion Time	Read Chp 15 &16
	Chapter 16: Administering Direct IV Medications	
Week 11	Chapter 17: Verifying Safe Dose	Read Chp 17
	Unit 5 exam	
Week 12	Chapter 18: Titration of Intravenous Medications	Read Chp 18
Week 13	Chapter 19: Calculating Intake and Output	Read Chp 19
Week 14	Chapter 20: Parenteral Intake	Read Chp 20
Week 15	Chapter 21: Considerations for the Pediatric Population	Read Chp 21
Week 16	Chapter 22: Considerations for the Older Adult Population	Read Chp 22
Week 17	Final Exam Chapters 14-22	

Tentative, subject to change without prior notice

SAMPLE DRUG CARD

SAM LL DIG CARD	
Generic Name: Category:	
Trade Name(s)	
Indication/Uses:	
Action/Metabolized	
Adverse Reaction / Contraindication(s)	
Drug-Drug Interaction	
Nursing Consideration(s)	
Patient Education	
Nursing Assessment:	
Nursing Diagnosis:	
Nursing Planning:	
Nursing Implementation:	
Nursing Evaluation:	