

### Basic Course Information

Semester:	<b>Fall 2019</b>	Instructor Name:	<b>Carmen Bravo RN, MSN</b>
Course Title & #:	<b>VN114: Pharmacology I</b>	Email:	<b>carmen.bravo@imperial.edu</b>
CRN #:	<b>11515</b>	Webpage (optional):	<b>www.imperial.edu</b>
Classroom:	<b>2135</b>	Office #:	<b>2134</b>
Class Dates:	<b>August 19- December 14</b>	Office Hours:	<b>By Appointment Only</b>
Class Days:	<b>Thursday</b>	Office Phone #:	<b>760-355-6493</b>
Class Times:	1400-1530	Emergency Contact:	<b>Nursing Office Secretary</b>
Units:	1.5		<b>760-355-6348</b>

**Last Date to Add: 31 AUG 2019**  
**Deadline to drop WITH "W": 09 NOV 2019**

### Course Description

An introductory course in pharmacology designed to assist the student in acquiring the basic skills of drug dosage calculations and the administration of medications. Clinical application will be integrated into VN 112. (CSU)

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

Admission to the nursing program.

***Corequisite courses for first semester VN:***

VN 110 – Introduction to Patient Care I  
 VN 112 – Introduction to Patient Care II

### 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 dosages in apothecary and metric systems and safely administer medications utilizing the 5 Rights in the clinical setting ILO 1, 2, 4

## 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. Describe drug orders and labels relevant to the safe administration of drugs.
4. Solve dosage problems using ratio and proportion and given formulas.
5. Calculate adult and pediatric dosages and intravenous flow rates.
6. Discuss the "five and nine rights" of patients relative to administration of medications.
7. Describe the routes of administration.
8. Administer oral, topical, sublingual, suppository, and injectable medication; apply medications to mucous membranes, eyes and ears. (Integrated into Nursing 110 (V) skills laboratory requirements and Nursing 112 (V) clinical objectives).

**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

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](http://www.DosageCalc.com)
- B. The on-line modules provide all materials found in the recommended book, Calculating Drug Dosages.
- C. Dimensional Analysis for Meds, 4<sup>th</sup> 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

**Classwork work:** The student is expected to bring required materials in 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.**

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**

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 if 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 1.5-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**

Each student in this class is expected to respectfully participate. Additional to the learning this class provides, this is a fun course. 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, 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 (!!!!)].

### **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](mailto: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](mailto: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 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	Pages/ Due Dates/Tests
Week 1 August 22	Syllabus & Introduction Unit 1: Safety in Medication Administration Chapters 1 & 2 Drug Cards	Read Chp 1 & 2
Week 2 August 29	Unit 2: Systems of Measurement. Chapters 3 & 4 Unit 1 Exam	Read Chp 3 & 4
Week 3 September 5	Chapter 7: Dimensional Analysis Unit 2 Exam	Read Chp 7

Date or Week	Activity, Assignment, and/or Topic	Pages/ Due Dates/Tests
Week 4 September 12	Chapter 10: Syringes and Needles	Read Chp 10
Week 5 September 19	Unit 4: Chapter 9: Calculating Oral Medication Doses Skills: Safe syringe exam and Oral Medication Administration	Read Chp 9
Week 6 September 26	Completion of Unit 4: Chapter 11: Calculating Parenteral Medications Doses Chapter 12: Preparing Powdered Parenteral Medications Chapter 13: Administration of Insulin	Read Chp 11-13
Week 7 October 3	<b>Mid-Term Chapters 1-13</b>	
Week 8 October 10	Chapter 14: Intravenous Infusion and Infusion Rates Overview of Intravenous Infusion set-up	Read Chp 14
Week 9 October 17	Chapter 15: Calculating Infusion and Completion Time Chapter 16: Administering Direct IV Medications	Read Chp 15 & 16
Week 10 October 24	Chapter 17: Verifying Safe Dose Unit 5 Exam	Read Chp 17
Week 11 October 31	Chapter 18: Titration of Intravenous Medications	Read Chp 18
Week 12 November 7	Chapter 19: Calculating Intake and Output	Read Chp 19
Week 13 November 14	Chapter 20: Parenteral Intake	Read Chp 20
Week 14 November 21	Chapter 21: Considerations for the Pediatric Population	Read Chp 21
Week 15 November 28	<b>THANKGIVING BREAK, Campus closed November 25-29</b>	
Week 16 December 5	Chapter 22: Considerations for the Older Adult Population	Read Chp 22
Week 17 December 12	<b>Final Exam Chapters 14-22</b>	

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

**SAMPLE DRUG CARD**

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