Basic Course Information

Semester	Fall 2014	Instructor's Name	Terrie J. Sullivan
Course Title &	NURS100: Medication	Instructor's Email	terrie.sullivan@imperial.edu
#	Math		_
CRN#	10786		
Room	2137	Office	2134
Class Dates	8/19/14- 10/9/14	Office Hours	T: 1200-1300, 1500-1600
	Drop date: 9/25/14	(n/a for PT Faculty)	W: 1020-1120
			TH: 8/21 - 10/10
Class Days	Thursday	Office Phone #	760-355-6426
		(PT may use dept.	760-355-6348 (Nursing
		number)	Office)
Class Times	0800-1005	Who students	M-Th: Leave message on
		should contact if	office phone
Units	1.0 unit	emergency or other	Or Dept Secretary
		absence	

Course Description

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.

Student Learning Outcomes

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

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

CD/Book: Calculating Drug Dosages: An Interactive Approach to Learning Nursing Math, 3rd Edition by Sandra Luz Martinez de Castillo, RN, MA, EdD Copyright © 2012 F.A. Davis Company

Dosage Calculations tutorials on https://www.atitesting.com/home.aspx

RECOMMENDED

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 may consist of in class exams and/or exams taken in Blackboard.

THERE ARE NO MAKE-UP EXAMS REGARDLESS OF EXCUSE.

Out of Class Assignments:

There will be homework assignments from the required CD and ATI Testing website. The results of the assignments will be printed out and turned into the instructor by the date that they are due. This assignments will be outlines in blackboard. The assignments will cover the topics discussed in class. 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 <u>and</u> two (2) hours of out-of-class time per week over the span of a semester.

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%

Grades will not be "rounded".

Attendance

According to the Imperial Valley College catalog: Regular attendance in all classes is expected of all students enrolled. Instructors are expected to take a student's record into account in computing grades. A student may be excluded from further attendance in a class during any semester when absences after the close of registration have exceeded the number of class hours that the class meets per week. Further, an instructor may drop any student judged to be a disturbing element in the class.

However, the attendance policy of the nursing program is further implemented as follows: Absences will be limited to two (2) hours or 1 class session for the course.

It is the responsibility of each student to attend all classroom and to contact the faculty person before the start of class of any need to be excused from class. A student who reaches the maximum allowable hours of absenteeism or tardiness may be dropped by the instructor.

Acceptance of absenteeism excuses is at the discretion of the faculty member and may result in failure of the 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

- The appropriate method of instruction will be determined by each instructor and may include, but not be limited to the following: classroom lecture, small group discussions, student presentations, demonstration, simulations, CD or online assisted instruction, audiovisuals, textbooks, handouts, and required reading and assignments.
- During all classroom time, every person will be respected within the group and it is expected that all interactions between students, faculty, and other staff will take place professionally and courteously.
- <u>Electronic Devices:</u> Cell phones and electronic devices must be turned off and put away during class unless otherwise directed by the instructor. You will need to have a basic calculator for class.

- <u>Food and Drink</u> are prohibited in all classrooms. Water bottles with lids/caps are the only exception. Additional restrictions will apply in labs. Please comply as directed.
- <u>Disruptive Students:</u> 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.
- <u>Children in the classroom:</u> Due to college rules and state laws, no one who is not enrolled in the class may attend, including children.

Academic Honesty

- <u>Plagiarism</u> is to take and present 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 correctly 'cite a source', 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, or assisting others in using materials, which are prohibited or inappropriate in the context of the academic assignment in question.

Anyone caught cheating or 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 School 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) use of a commercial term paper service

Additional Help - Discretionary Section and Language

- <u>Blackboard</u> support center: http://bbcrm.edusupportcenter.com/ics/support/default.asp?deptID=8543
- <u>Learning Labs:</u> There are several 'labs' on campus to assist you through the use of computers, tutors, or a combination. Please consult your college map for the Math Lab, Reading & Writing Lab, and Learning Services (library). Please speak to the instructor about labs unique to your specific program
- <u>Library Services</u>: There is more to our library than just books. You have access to tutors in the learning center, study rooms for small groups, and online access to a wealth of resources.
- <u>Nursing Learning Center:</u> Please utilize the nursing learning center tutors for assistance with medication math related studies.

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. If you feel you need to be evaluated for educational accommodations, the DSP&S office is located in Building 2100, telephone 760-355-6313.

Student Counseling and Health Services

Required Language: Students have counseling and health services available, provided by the prepaid Student Health Fee. We now also have a fulltime mental health counselor. For information see http://www.imperial.edu/students/student-health-center/. The IVC Student Health Center is located in the Health Science building in Room 2109, telephone 760-355-6310.

Student Rights and Responsibilities

Required Language: Students have the right to experience a positive learning environment and due process. For further information regarding student rights and responsibilities please refer to the IVC General Catalog available online at

http://www.imperial.edu/index.php?option=com_docman&task=doc_download&gid=4516&Itemid=762

Information Literacy

Required Language: Imperial Valley College is dedicated to help students skillfully discover, evaluate, and use information from all sources. Students can access tutorials at http://www.imperial.edu/courses-and-programs/divisions/arts-and-letters/library-department/info-littutorials/

Anticipated Class Schedule / Calendar

Date	Day	Time	Room	Description	Instructor	Assignment Due
8/21/14	Thurs	0800-1005	2137	Orientation Unit #1: Systems of Measurement 1. Dimensional Analysis Concept Introduction.) 2. Conversion Tables 3. Metric System Units of Weight EXAM 1: Unit #1-Basic Math Review from CD – DUE Monday August 25, 2014 11pm results to be e-mailed to instructor	Sullivan	CD-Rom Calculating Drug Dosages: An Interactive Approach to Learning Nursing Math, 3 rd Edition by Sandra Luz Martinez de Castillo Alternate Reading: Curren Ch1-3 Study Guides Listed in Modules – Blackboard Enroll at ATItesting.com- THIS IS REQUIRED AND YOU WILL HAVE TO PAY FOR IT
8/28/14	Thurs	0800-1005	2139	Mini-Quiz Conversion Tables (memory recall)!	Sullivan	ATI tutorials

				Unit #1: Systems of Measurement (cont) 4. Apothecaries' System 5. Household System 6. Dimensional Analysis and conversions between systems 7. Temperature Conversion Formulas 8. Military Time		Study Guides ASSIGNMENT: CDD-Cd Methods of Calculation-DA CDD-CD System of measurement Assignments on CD due to instructor Wed. August 27 by 11pm in Blackboard
9/4/14	Thurs	0800-1005	2139	Exam 2: Conversions in and between systems of Measurements, Temp & Time in Blackboard Due Friday, August 29, 11PM Prep for Calculation of Drug Dosages. 1.Safety in Medication Adm. 2. Interpretation of Phys. Orders 3. How to read Drug Labels. 4. Abbreviations 5. Unit Dose Dimen. Analysis 1-2 Factors 1. Oral Medications 2. Parenteral Dosages IVP, IM,SC 3. Dosages in Units	Sullivan	Alternate reading: Curren Ch. 4, 5,6,7,9,10,11, 12 Study Guides by MC ATI tutorials Assignment: CD Methods of Calculation-DA CD System of measurement CD-Reading drug labels Assignments on CD due to instructor Wed. Sept. 3 11pm via e-mail /Blackboard
9/11/14	Thurs	0800-1005	2139	Dimen. Analysis 1-2 Factors 1. Oral Medications 2. Parenteral Dosages IVP, IM,SC 3. Dosages in Units. 4. Reconstituting powdered medications Exam 3: Dimen. Analysis: Oral, Parenteral Dosages in Blackboard Due Friday 9/12, 11pm	Sullivan	Alternate reading: Curren ch 4, 6,7, 8,9,10,11,12,15,16,17, 18,19 Study Guides by MC Assignment CD Administration of oral mediations CD-Syringes and needles CD-Administration of parenteral medications CD-Reconstitution of powdered medications Assignments on CD due to instructor Wed. Sept. 12 11pm via email/Blackboard ATI tutorials
9/18/14	Mon.	0800-1005	2139	IV Fluids 1. Tubing: Micro, Macro, Blood. 2. Primary Line Flow rates (gtts/min) 3, Piggy Back Flow Rate(gtts/min) 5. Blood Flow rates	Sullivan	Alternate reading: Curren ch 4, 6,7, 8,9,10,11,12,15,16,17, 18,19 Study Guides by MC Assignment

				6. Specialty IV: Ins & Hep & Units		CD- IV Calculations Assignments on CD due to instructor Wed. Sept. 17 11pm via e-mail /Blackboard ATI tutorials
9/25/14	Tues	0800-1005	2139	Exam 4: IV's Primary, Piggy, Speciality, Blood. (Gtts/min &ml/hr) in Blackboard Due Friday, Sept, 26, 11pm Pediatric conversions Multifactor Problems Critical Care Problems 1. mcg/kg/min 2. mcg/min 3. reverse calculations 4. Verifying rates.	Sullivan	Alternate reading: Curren Ch 13,14,15,16,17, 18, 19,20, 21, Assignment CD- Titration of medications Assignments on CD due to instructor WEDNESDAY June 25 5pm via e-mail
10/2/14	Thurs	0800-1005	2139	Exam 5: Critical Care Calculations. Pediatric Problems done in class Review for final		CD- Preparing for NCLEX
10/9/14	Thurs	0800-1005	2139	FINAL EXAMINATION		