Imperial Valley College Division of Health and Public Safety
NURSING & ALLIED HEALTH DEPARTMENT
Pharmacology I (RN)
Nursing 113 CRN 10730
Class Syllabus/Schedule Fall 2013

Time: 1330-15:00 pm   Instructor: R. Fitzsimmons FNP, BC, MSN,
Day: Tuesday |Classroom: 2139   Start Date: August 20, 2013 |
**   End Date: December 3, 2013**
<u>**Deadline to drop WITH "W":**</u> **Nov 4, 2012   (Week 12)**
Office: 2129
Phone: 355-6421
Email: rick.fitzsimmons@imperial.edu
Texts Required:
> **Lilley, Rainforth-Collins, Harrington & Snyder: *<u>Pharmacology and the Nursing Process 6^{td} ed.</u>***
> **Mosby/Elsevier: ISBN: 978-0-323-05544-4**

> **ATI Pharmacology**

Recommended Text:
> **Snyder & Sacova: *<u>Study Guide Pharmacology and the Nursing Process 6^{td} ed.</u>***
> **Mosby/Elsevier: ISBN: 978-0-323-06660-0**
> **Delgin, Vallerand & Sanoski; *<u>Davis Drug Guide for Nurses 12th ed.</u>* FA Davis:**
> **ISBN 10: 0-8036-2310-0 ISBN 13: 978-0-8036-2310-1**
> **(PDA program Unbound Medicine.)**

Nurs 113 (1.5 units).
PHARMACOLOGY I
Term Hours: 27 Lec, 0 Lab
Letter Grade only
Prerequisites:MATH 090, ENGL 101, PSY 101, SOC 101 or ANTH 102,
BIOL 220, BIOL 204 and BIOL 206 or BIOL 200 and BIOL 202, and
NURS 100, all with a grade of "C" or better.
Corequisites: NURS 110, NURS 111, NURS 112.
This course focuses on those components of pharmacology related
to safe nursing care and the reduction of medication errors. The course
includes information about the general classifications of drugs and
principles of therapy related to the effects, actions, and therapeutic
use of each drug. Nursing actions and rationale for nursing actions
are explored. This class will cover drug administration throughout
the lifespan, including psychosocial, gender, and cultural influences.
Clinical application is integrated into the clinical nursing courses.
(CSU)

Grading: Student progress in this course may be measured using exams, quizzes, pop-quizzes, homework assignments, drug cards, classroom presentation, online assignments, and simulated clinical experiences. A comprehensive final examination will be given that will count for 25% of the course grade. The final exam must be passed with a 75%. Failure of the final will result in course failure.

The course grade will be computed as follows 75% will come from an average of all assignments prior to the final exam, and 25% of the course grade will come from the final exam. Drug card and assignments will compose 40% and Tests 60% of the 75% of grade.
THERE WILL BE NO MAKE UPS FOR Tests, Exams, or Quizzes. The course grade will be computed as follows 75% will come from an average of all assignments prior to the final exam, and 25% of the course grade will come from the final exam.
RN Nursing Grading Scale
A = 92 –100%
B = 83 – 91 %
C = 75 – 82 %
D = 68 – 74 %
F = Below 68%

"Each semester of the nursing program includes at minimum a) theory course work, b) clinical experience course work, and c) nursing skills laboratory work as well as any required co-requisite courses. 1) Each of these areas must be passed with a 75% or better 2) Failure of any one part necessitates re-taking **all** three; **i.e.** theory, clinical, and skills to meet the Board of Nursing requirement for concurrent clinical and classroom study." See RN program Handbook.

Minimum course requirements for progression in the Nursing Program 1) **Final Course Grades must** be 75% ("C") or better, based on ALL the following: (a) All finals will be passed with a score of 75% or better. See RN program Handbook.

Attendance: 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 close of registration have exceeded the number of class hours which the class meets per week. Students who are late to class three times in any nursing course will be considered absent for one day.
Disruptive Behavior: An instructor may drop any student judged to be a disturbing element in the class. Cell phones, pagers and all electronic devices shall be turned off during class. Disruptive behavior during lecture will not be tolerated.
Miscellaneous: Students are encouraged to utilize the: Health Science Learning Center (Nursing Learning Center) Phone: 355-6530

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. DSP&S is located in Room 2117 in the Health Science Building. Their phone number is 760-355-6312.

Schedule changes:
This schedule is subject to change to meet the learning objectives of the course and progress of the students. The instructor has final word in all schedule changes including test dates and make up tests if any. When enrolled in the class you will accept all professional judgments on the day to day running of the class. Any concerns about the class must first be taken up with the

instructor. The next person in the chain of command is the Director of the Health Sciences Division. As a student enrolled in this class you will follow all the **_Regulations_** covered in the student handbook. Failure to follow these regulations may result in a grade of (F).

Cheating: Students caught cheating or attempting to cheat on exams will be given a zero for that exam. The student may also be referred to the Dean of Instruction for further discipline. Cheating includes, but is not limited to looking at another stunt's paper, opening any other computer window outside of test window, minimized cheat sheets, speaking out answers or questions, the use of open box or notes, finger spelling in sign language, notes written on skin, or text messaging or use of high tech gadgets to provide testing material.

ATI Testing: An ATI test in pharmacology may be required of RN students during progress thru the nursing program. Please see the Imperial Community College District Division of Nursing and Allied Health Technologies RN Program Handbook or the NLC Tutor for testing dates times. Currently students take an ATI pharmacology test in 3rd semester.

Students failing unit exams are expected to develop remediation plans and meet with the Nursing Learning Center Staff prior to the next exam. Completion of remediation plan should be documented and placed in the students Nursing File.

Student Learning Outcomes

1. The student will be capable of differentiating the principles of Pharmacology, Pharmacodynamics, Pharmacokinetics Pharmacogenetics, therapeutics and toxicology. This will be determined by passing the first test with a 75% or better.
2. Identify the mechanism of action, use, side effects and nursing interventions of medications for the pain control, bacterial & viral infection, Cardiovascular, gastrointestinal, skin, otic, ophthalmic, anemia and diabetes by passing the final with a 75 percent or better.
3. The student will be able to apply pharmacological principles in the care of patients by passing the ATI Pharmacology test in the 3rd semester with a raw score of over 70%.

Pharmacology I
Nursing 113

Date	Description	Reading is to be done prior to class so that you may be an active participant in Lecture and class activities.
8-20-2013	**Introduction to Pharmacology Basics** Nursing Process Pharm. Principles	**Lilley Ch: 1,2,** **Workbook Ch: 1,2** **ATI: Pharm Principles**
8-27-2013	**Pharmacology Basics** Life Span Issues. Special considerations: Legal, Cultural, & Ethical Gene therapy Medication Errors	**Lilley Ch: 3,4,5,6,** **Workbook Ch: 3,4,5,6,** (Note Work Book always with reading!!!) **ATI: Pharm Made Easy: Introduction**
9-3-2013	**Pharmacology Basics** Pt Education OTC, Herbal and Dietary medications. Substance Abuse.	**Lilley Ch: 7,8, 17** **Workbook Ch: 7,8, 17** **ATI: Pharm Made Easy: Introduction**
9-10-2013	**Test I (Ch1-9,17) Pharm Basics** **Medications for Pain control**	**Lilley Ch: 11 & ATI Pharm Made Easy: Introduction** Drug Cards Due: *Opioid Agonist*; **Morphine** (Astromorph) *Opioid Antagonist*; **Naloxene** (Narcan) *NSAID,* &**Acetaminophen** (Tylenol) Misc: **Tramadol** (Ultram)
9-17-2013	**Medications for the Treatment of Infection**	**Lilley Ch: 38, 39; ATI Pharm Made Easy:Infection** Drug Cards: Antibiotics *Sulfonamides*; **Sulfamethozazole/trimethoprim** (Bactrim/Septra) *Compare/Contrast (C/C):* *Penicillin:***Amoxicillin** (Amoxil) *Cephalosporins: 1st gen*:3rd gen **Ceftriaxone** (Rocephin) *Carbapenems;* **Imipenem/cilastatin** (Primaxin) *Macrolides:* **Erythromycin** (E-mycin) *Tetracyclines:* **Doxycycline** (Doryx) *Amionoglycosidees*: **Gentamicin** (Garamycin) *Quinolones:* **Ciprofloxacin** (Cipro)
9-24-2013	**Medications for the Tx of Infection**	**Lilley Ch: 40; ATI Pharm Made Easy:Infection** Drug Cards: *Miscellaneous:* C/C: **Clindamycin** (Cleocin) **Linezolid** (Zyvox). **Metronidazole** (Flagyl) **Vancomycin**(Vancocin) *C/C: NRTI*; **Zidovudine**(Retrovir, *NNRTI;* **Nevirapine** (Viramune), *Protease Inhibitor*; **Saquinavir** (Invirase),*Antiviral;* **Acyclovir**(Zovirax)

Date	Topic	Reading/Resources
10-1-2013	**Test II (Ch 11,38,39,40)** **Cardiac Medications**	**Lilley Ch: 22, 28; ATI Pharm Made Easy: Cardiovascular** Drug Cards: Renin blocker, C/C: **aliskiren,**;ACE, **enalapril**: ARB, **losartan**;, C/C: Adrenergic drugs, **clonidine, Doxazosin, nebivolol**; C/C: CCB; **nifidepine, verapamil** Sodium nitroprusside, C/C:Diuretics: **hydrpchlorothizaide, furosemide**
10-8-2013	Cardiac Medications	**Lilley Ch: 26; ATI : Pharm Made Easy: Cardiovascular** Drug Cards:C/C: **Warfarin**,; **Heparin, enoxaparin, alteplase**, C/C: **aspirin, clopidogrel**
10-15-2013	Cardiac Medications	**Lilley Ch: 27; ATI Pharm Made Easy: Cardiovascular** Drug Cards: **atrorvastatin, gemfibrozil, cholestryramine, niacin**
10-22-2013	**Test III (Ch 22,26,27,28)** GI medications	**Lilley Ch: 50, 51; ATI Pharm Made Easy: Gastrointestinal** Drug Cards**: C/C: Antacids, cimetidine, lansoprazole, , sucralfate, C/C:diphenoxylate with atropine, lactobacillus, C/C:lactulose,** polyethylene glycol,
10-29-2013	GI medications	**Lilley Ch: 52, 53; ATI Pharm Made Easy: Gastrointestinal** Drug Cards: **C/C** anitemetics: **Metoclopramide, ondansetron, scopolamine: C/C: Water soluble Vit (Cyanocobalamin, ect..) C/C:Fat soluble (Vit A,Dect..), calcium**
11-5-2013	GI medications	**Lilley Ch: 55; ATI Pharm Made Easy: Gastrointestinal** Drug Cards: **C/C importance of Parenteral/Enteral formulations: Amino acids, lipid emulsion, protein formulation, carbohydrate formulation**
11-12-2013	**Test IV (Ch 50,51,52,53,54)** Medications for DM	**Lilley Ch: 32; ATI Pharm Made Easy: Endocrine** Drug Cards: **,Glipizide, metformin, pioglitazone (actos),Sitagliptin** (Januvia)
11-19-2013	Medications for DM	**Lilley Ch: 32: ATI Pharm Made Easy:Endocrine** Drug Cards: C/C: **insulin (NPH & Reg, & Lispro), glargine,**
11-26-2013	Medications for Skin disorders, ears, eyes	**Lilley Ch: 56, 57, 58;** Drug Cards: C/C:**bacitracin, isotretinoin, silver sulfadiazine, C/C: Ophthalmic: atropine, dexamethasone, latanoprost, pilocarpine**
12-3-2013	***Comprehensive Final Exam***	

**Pharmacologic
Drug Card Guidelines**

The purpose of the drug cards is to have all students research drug classifications, outline them and then create a learning product. When these steps are taken your learning is enhanced. Compare and contrast means to look at similarities of drugs and classes of drugs compared to how they are individual (different). Any short cuts that you may take will be revealed in your clinical practice and didactic tests. **Tip**: **do not copy and paste to the point that you do not read or understand the material,**

All drug cards will follow the following format, or your grade will be severely impacted (**5 points per error**).

> All papers will be **typed with roman or courier**, **no underlining, bold, or italics will be accepted. No pictures or designer graphics that add only looks with no informational content**. Large and small case lettering must be used as with all APA format. **Topic headers must** be used to assist in organizing the material.

> All papers will have **headers on each page** with **title (drug class) and each group member's name (last name & first initial)**. Pages shall be **numbered** in proper sequence in **bottom right hand corner** (see page).

> All papers will be in Paragraph form, no listing or outlining, unless used with appropriate APA indications.

> All classifications need to be **described fully** in regards to 1**) how the class of drugs work,** 2) **use and effects of the class of drugs**, 3) **side effects, adverse reactions, contraindications, & drug interactions** and 4) you need to evaluate the above to determine the **nurses monitoring or teaching priorities.**

> Remember, you only need to explore the drug classification. Individual drugs need not be explored in this format, unless specifically requested. Many of the classifications are explained by using a drug prototype. You may also use this drug in your explanation (Beta Blockers = Inderal).